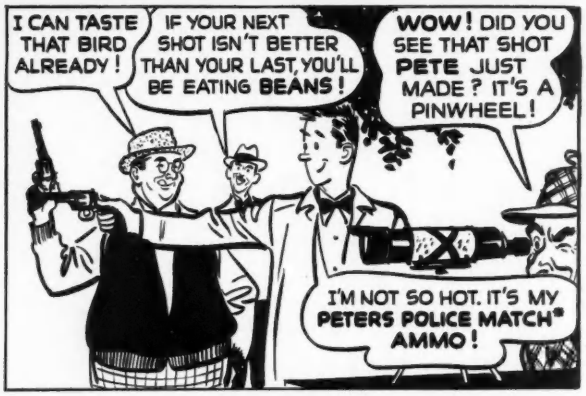
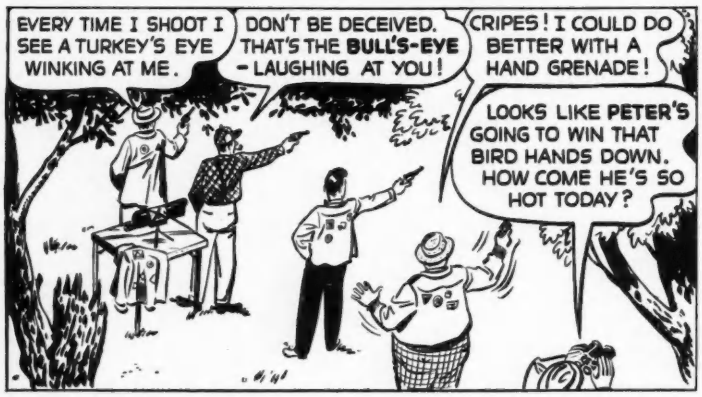
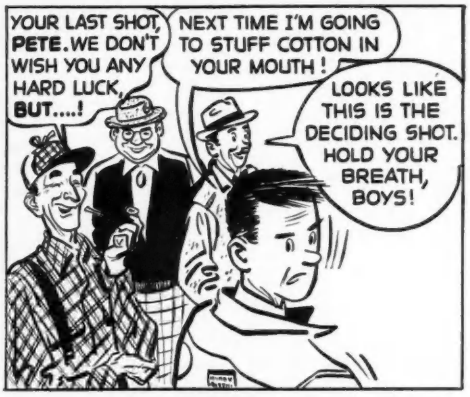
25 CENTS

THE AMERICAN RIFLEMAN

Peter Peatbright steals a turkey. SHOOT


I CAN TASTE THAT BIRD ALREADY!
IF YOUR NEXT SHOT ISN'T BETTER THAN YOUR LAST, YOU'LL BE EATING BEANS!
WOW! DID YOU SEE THAT SHOT PETE JUST MADE? IT'S A PINWHEEL!
I'M NOT SO HOT. IT'S MY PETERS POLICE MATCH* AMMO!


EVERY TIME I SHOOT I SEE A TURKEY'S EYE WINKING AT ME.
DON'T BE DECEIVED. THAT'S THE BULL'S-EYE – LAUGHING AT YOU!
CRIPES! I COULD DO BETTER WITH A HAND GRENADE!
LOOKS LIKE PETER'S GOING TO WIN THAT BIRD HANDS DOWN. HOW COME HE'S SO HOT TODAY?


YOUR LAST SHOT, PETE. WE DON'T WISH YOU ANY HARD LUCK, BUT....!
NEXT TIME I'M GOING TO STUFF COTTON IN YOUR MOUTH!
LOOKS LIKE THIS IS THE DECIDING SHOT. HOLD YOUR BREATH, BOYS!

CONGRATS, PETE! NOW I KNOW WHY YOU'VE BEEN SAVING UP YOUR PETERS POLICE MATCH 22s!
NEVER MIND! WHEN THEY'RE ON SALE AGAIN WE CAN ALL SHOOT 'EM!

PETERS Rifle and Pistol Ammunition

PETERS CARTRIDGE DIVISION, *Remington Arms Co., Inc., Bridgeport 2, Conn.*

*"Police Match" is a trade-mark of Peters Cartridge Division

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6½ or 4½ inch barrel

COLT SUPER .38
Built on same frame as World-Famous .45 Colt Automatic

COLT DETECTIVE SPECIAL
Caliber .38 Special. Packs a tremendous wallop.

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For its size, the snub-nosed DETECTIVE SPECIAL Revolver packs extra hitting power. It's a business weapon for "plain clothesmen" – but the neat way it slips into pocket or holster makes it a real outdoor pal. Surprisingly accurate!

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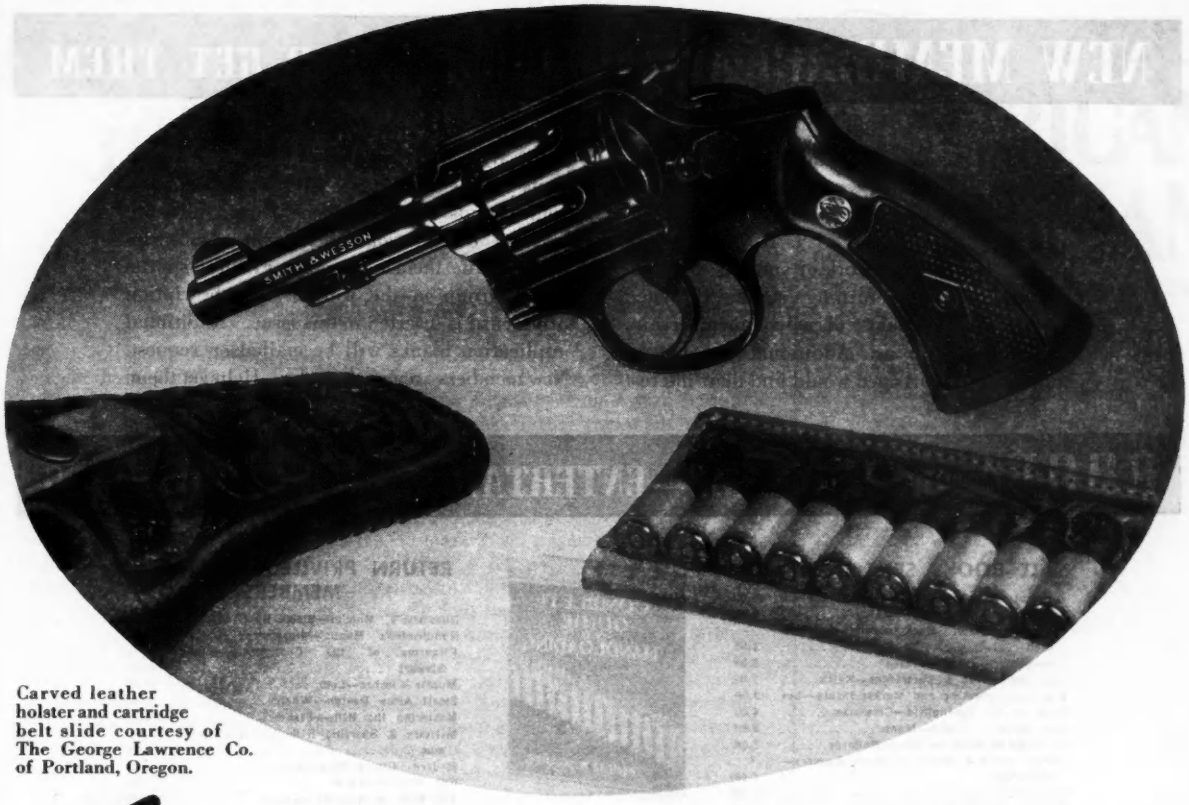
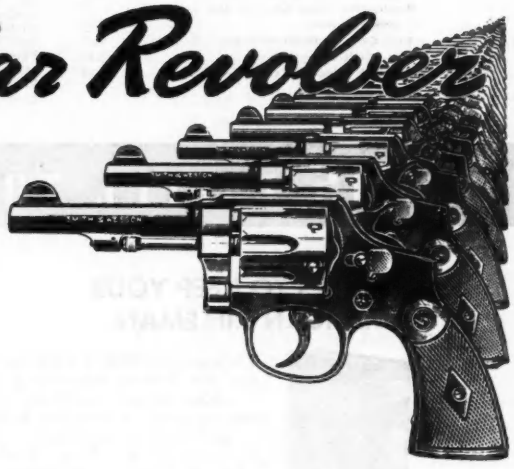


Carved leather holster and cartridge belt slide courtesy of The George Lawrence Co. of Portland, Oregon.

Most Popular Revolver ever made



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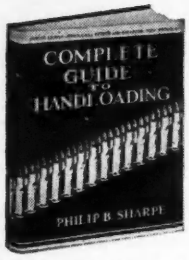

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NATIONAL RIFLE ASSOCIATION

SCOTT CIRCLE **WASHINGTON 6, D. C.**

An Editorial

The Backdoor Approach

ONCE more the antigun crusaders are hard at work. Having always been soundly beaten when they attempted by direct approach to put over their Gestapo law, they are once more trying the backdoor approach. Having no logic to support their disarmament program, they are again turning to the old familiar "viewing with alarm" and to public statements planned to arouse hysteria in the local, state, and national legislatures.

The basis for the latest register-all-firearms-and-eliminate-crime campaign is the return of souvenir firearms from overseas by members of the Armed Services. The campaign was originally started with the claim that thousands of light machine guns and machine pistols were being mailed home and brought in by returning veterans. All such weapons are already thoroughly covered by Federal law and by the firearms laws of many states. In addition, the Armed Services prohibit the return to the United States of all such weapons. When these facts were pointed out, the antigun crowd (most of whom are neither familiar with existing law nor with the difference between a pistol and a machine pistol) promptly switched their propaganda and began talking about (a) the thousands of "guns" that were being mailed or brought into the United States by veterans, (b) the terrible danger of returned veterans, armed to the teeth, going on a rampage of crime as a result of their soldiers' training in violence, (c) the probability that returned veterans would carelessly give or sell their hard-earned souvenir weapons to gangsters, (d) the shattered homes that would surely result when the veterans' wives and children began playing with the souvenir weapons.

Of all the lies, half-truths, and sob-sister pleas that have, in past campaigns, been utilized to try to disarm the reputable American, nothing has ever exceeded the misinformation and mouthwash that is currently finding its way into the public print. Americans are already being asked to forget (1) that less than two out of every hundred men called to the Colors to fight this war knew anything about the construction or use of rifled arms; (2) that registration of privately owned firearms was the legislative dictum on which Mussolini, Hitler, and every dictator before them, rode into power.

In combating this latest campaign, sportsmen should remember that the "thousands of guns" which are being talked about by the would-be Gestapo boys are guns already held in U. S. Customs warehouses. They have been *already* legally seized and confiscated by the Government because the *existing* Federal laws and the regulations of the Army and Navy adequately cover the situation. The very fact that these weapons have been legally seized is indication to any normal mind that no further laws are needed to handle the "problem" (?) of the returning veteran and his souvenirs.

The fact that some Federal officers (of the Alcohol Tax Unit, Internal Revenue Division, Treasury Department) are encouraging local police to register *all* firearms despite the fact that Congress has specifically *exempted* from Federal registration all firearms except submachine guns and "sawed-off" rifles and shotguns indicates that the Gestapo idea, a national police control of the individual citizen's personal weapons, has again acquired dangerous force.

Such local "crime waves" as have occurred have been due to a criminal element among civilian stay-at-homes. Neither veterans nor their souvenir weapons can be held responsible for what has happened in a few war-expanded communities. This is true although between three and four million veterans—and their souvenir weapons—have already returned to civilian life.

The present campaign to register all guns is another campaign of innuendo, half-truth, and hysteria. Local sportsmen's organizations and individuals must make known their opinions through their local press and by contact with their City Councilmen, State Legislators, and Congressmen. Every antigun statement must be met by a prompt reply *from local voters*. Shooters and all citizens, who believe in the American's right to defend his person and property without the "by-your-leave" of police or military, must speak plainly and promptly if they are not to lose one of the precious things for which they have given of their life's blood during the past four years.—C. B. L.

The

AMERICAN RIFLEMAN

Official Journal of The National Rifle Association of America

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TURKEY RIFLE....

Finally, he stepped out into the open. But, instead of coming nearer——

By HENRY E. DAVIS

MY FAVORITE TURKEY RIFLE is a Model 70 K-Hornet. And that's news, because, not many years ago, I'd have told you that my Model 70 standard Hornet, equipped with a Lyman 5A scope, was the best combination I've ever used for turkeys. It took an accident to change my mind.

New Year's morning, 1940, dawned cold and gray, with snow swirling thick around the buildings as I crossed the yard. I had two rifles with me that morning—the Model 70 standard Hornet, and a .25 Roberts-Niedner. I leaned them both against the wall of the garage while I unlocked the doors . . . and that was a mistake I was to find a costly one. A few snowflakes must have blown inside the barrel of the Hornet as it stood there with its muzzle exposed, and those flakes must have frozen fast to form a tiny but disastrous obstruction in the barrel; for, when I fired the gun a little while later, a distinct ring bulge appeared in the barrel about midway of its length. (I killed a turkey that day with the .25 Roberts-Niedner, but that's beside the point of this story.)

Here, then, begins the saga of the Model 70 K-Hornet. On buying it, I decided to go all out in fitting it with a scope, so I bought a special Fecker 4X target model, sixteen inches long, and had John Unertl change it to a 6X with 26 mm. objective, with post and cross-wire reticule. This reticule, however, didn't suit me exactly, so the scope went back to Unertl again and that reticule was replaced by a medium cross-hair reticule. (I prefer the Lee floating dot and the medium cross-hair reticules to any I have ever seen.)

Next, the rifle was sent to E. Gebby for conversion. He relined the barrel with a liner having a .224-inch groove diamter and a sixteen-inch twist, chambered for the K-Hornet cartridge.

Well, the outfit, when finished, exceeded my best expectations as to performance. The scope is the best of the dozen I own, and the rifle has shown not only gilt-edge accuracy but amazing power. In fact, its heavy loads with forty-five-grain bullets equal in every way the very best loads of the same bullets in the original .22-3000 Lovell, and the Hornet has the advantage of being a repeater.

All of this took time, and it was Thanksgiving Day, 1942, before I was ready to blood this rifle on turkey. The day dawned mild and calm, partly cloudy; conditions that augured well for a successful turkey hunt. In keeping with a custom of long standing, our club members and their guests, some forty in all, gathered at the hunting lodge in the river swamp early that morning, all set for an all-day deer drive and a barbecue dinner. The pigs had been roasting over the pits since midnight, the hunt was duly planned, and the standers and drivers departed. But I never could muster the patience to stay on a deerstand, and I was determined to use this day to better advantage. Luckily, the outer rather than the inner swamp had been chosen for the deerdrive, which would leave undisturbed the very section where turkeys would most likely be using at that season.

I slung the Model 70 K-Hornet over my shoulder and headed for the river some two and a half miles away. My immediate objective was a wide, densely wooded section extending for miles along the western bank of the river. Bounding this section on the north was a very crooked creek which, for its last quarter of a mile, was virtually a gorge with perpendicular walls some twelve or fifteen feet high. Both sides of the creek were flanked by canebrakes, the one on the north bank being almost impenetrable. Nearly all the timber had been cut from that area and over the fallen treetops had sprung a rank growth of canes, cat-claw briars, and vines that made this north side a jungle that defied passage even to a wildcat.

The swamp south of the creek was a noted turkey range in the fall and midwinter seasons, so I approached it with high hopes. Nearing the river, I crossed the first slough and passed

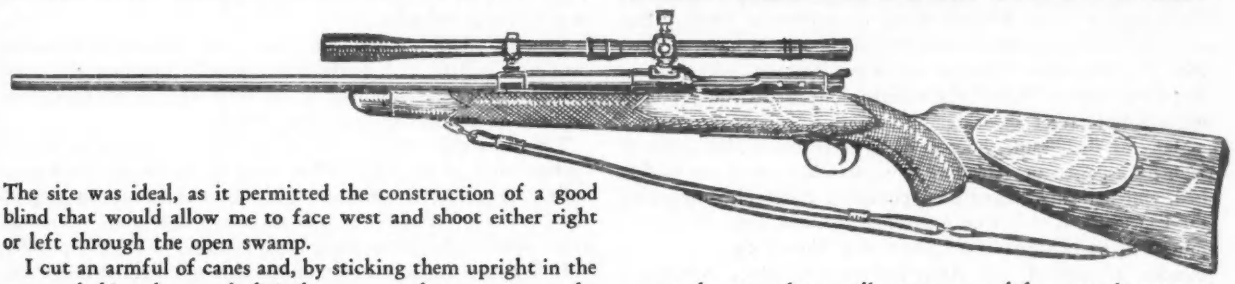
onto a ridge covered with huge pines. I was following an old road that led to a ferry landing years ago, and, just as I reached the crest of the pine ridge, several old gobblers dashed from the old road and sought sanctuary in the canebrake below the mouth of the creek, some distance to my left.

Usually, the proper strategy is to fire at running turkeys, to make them fly and scatter. But I dared not do that here. The river was just over the canebrake and, once in the air, they would never have landed until safe on the farther shore. So I stood still until they had entered the canes, then made a wide detour to the left, which brought me to the creek and put me in position to reach their refuge by following the southern bank of the stream.

Just as I rounded a bend of the creek, a flock of some twenty young gobblers and hens literally exploded in my face from a glade bordering the canebrake. The air was swarming with their hurtling forms, and I undertook to count them. The first fifteen headed straight for the jungle north of the creek, but Number Sixteen turned west and away from the river. I heard several more rise from the ground, but did not stop to count them as my attention was now centered on Number Sixteen. I saw him come to rest atop a tall cypress some hundred yards away, and I drew my bead. I had him clearly in the glass, but I was overeager. I fired—and scored a clean miss. No excuses or alibis are offered; it was just plain rotten shooting!

I now had some twenty-five turkeys scattered in an area of about forty acres. The problem was how to handle them. The young turkeys, I knew, were in the trees in the jungle north of the creek; but I felt sure that the old gobblers were secreted in the canes on this side of the creek. Acting on this hunch, I slipped down the canebrake some 200 yards to where a large log lay parallel with and right at its margin. Behind the log stretched the canes; in front was fairly open swamp.

The question, What's the best rifle for any particular job?, is one that will produce as much argument and as many dissenting opinions as that other destroyer of friendships, Who was the greatest heavyweight champion? But here's one man who has found the answer to his own satisfaction, at least. And that, in itself is news! For Mr. Davis, the turkey rifle to end all arguments about turkey rifles is—



The site was ideal, as it permitted the construction of a good blind that would allow me to face west and shoot either right or left through the open swamp.

I cut an armful of canes and, by sticking them upright in the group, fashioned out of their leaves a perfect screen on the west side of the log. After making a porthole in the screen just at the top of the log, and testing it by aligning the rifle through it I sat down on the log to wait for the turkeys to begin calling.

It was then twelve o'clock and, by all the rules of the game, they were due to open up within an hour. From my position on the log, when I faced east the tops of many of the trees standing in the jungle were plainly visible through an opening in the canes. A gnarled old sycamore overhanging the river stood clearly silhouetted against the sky, its great snow-white limbs giving it the appearance of some giant skeleton. My attention was drawn to a dark object in the topmost branches of this old tree, and I brought the rifle to bear on it. The scope showed the object to be a beautiful young gobbler standing as erect as a statue. He was well out of range but, from time to time for the next two hours, I trained the scope on him and during all that period he never changed his pose.

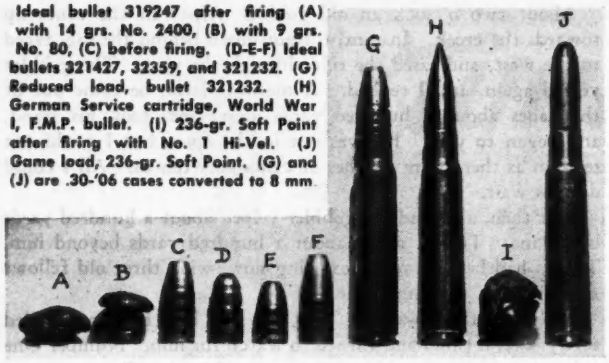
About two o'clock an old gobbler yelped in the canes up towards the creek. Instantly, I got down behind the log, faced to the west, and eased the rifle through the port. The gobbler yelped again, and I replied. A moment later, he came out of the canes about a hundred yards above me, took his stand, and began to yelp. He was out in the open, but I could not see him as there were patches of canes between us. All I could do was wait.

Just then, a second old gobbler yelped about a hundred yards below me. Then a third, about a hundred yards beyond him. Things had become really exciting now, with three old fellows all talking at the same time.

I decided that Number Two was the best bet, so I called softly several times and turned to watch for him. Number One refused to budge from his position, but Number Two came out of the canes and started toward me. He came to within sixty yards, took a stand where he, too, was hidden from me by the canes, and yelped from time to time for the next ten minutes. But I refused to call to him and kept the rifle trained on his position.

Finally, he stepped out into the open. But, instead of coming nearer, he started to walk away on a left-quartering course. It was now or never, so I centered the cross-hairs squarely on his right hip, and squeezed. He collapsed in his tracks when the rifle cracked, and I knew I had me a turkey-shootin' rifle!

The load I used that day was the most powerful of all the K-Hornet loads I have tried: 13.2 grains of Number 4227 powder behind the forty-five-grain Remington bullet. This load in the Winchester case, which I was using, has an estimated muzzle velocity of at least 3,100 f.s., and is entirely too powerful for small or young turkeys except at ranges over 150 yards. On this old bird, however, its performance was quite satisfactory. It drilled a hole about half an inch in diameter just under the backbone, diagonally from the right hip to the point of exit under the left wing, and destroyed no meat. However, I would not have used it had I not missed the first turkey that morning with a 2,600 f.s. load. This miss had left me in doubt as to the proper placing of the cross-hairs for this load, but I knew exactly (*Continued on page* 18)



Ideal bullet 319247 after firing (A) with 14 grs. No. 2400, (B) with 9 grs. No. 80, (C) before firing. (D-E-F) Ideal bullets 321427, 32359, and 321232. (G) Reduced load, bullet 321232. (H) German Service cartridge, World War I, F.M.P. bullet. (I) 236-gr. Soft Point after firing with No. 1 Hi-Vel. (J) Game load, 236-gr. Soft Point. (G) and (J) are .30-'06 cases converted to 8 mm.

Reloading the 8 mm. Mauser

By A. M. SCHNETZLER

AFTER WORLD WAR I, quite a number of Model 1898, 7.9 mm. (more commonly called 8 mm.) German Mauser service rifles found their way into the United States. Most of these were the infantry model, with a thirty-one-inch barrel and a bolt handle that stuck straight out from the receiver. They were, on the whole, ungainly weapons. Among these infantry models was another type known as the carbine model, less common but much neater in appearance. These were lighter pieces, having twenty-four-inch barrels and with the bolt handle turned down, similar to our modern bolt-action sporters.

Many of these Mauser rifles, after they reached this country, served merely as wall adornments or collectors' items. But some fell into the hands of shooters who, sooner or later, worked them over into so-called sporters, or semisporters, according to their own ideas of what they wanted, and used them for both hunting and target shooting.

Many of these same shooters do some reloading, but most of them have passed up reloading this cartridge. It is not widely used, and little data have been published concerning reloading it. Especially is this true regarding reduced loads using cast bullets. As a matter of fact, the 8 mm. Mauser case is as easily reloaded as any of our American-made, rimless, bottleneck cases. It is very similar to our .30-'06 case except in length, the Mauser being approximately one-quarter of an inch shorter.

The 8 mm. Mauser cartridge, as loaded by our leading ammunition companies, is furnished in a choice of two bullet weights: 170 and 236 grains, soft point, suitable for deer and similar game. One company which devotes itself exclusively to the manufacture of fine, metal-cased bullets furnishes these in 154- and 175-grain weights, hollow point, to be driven at 2,700 and 2,500 foot-seconds velocity respectively for proper mushrooming effect on game. (These are the maker's recommendations.)

The .32 Winchester Special (170 grains) and the .32-40 Winchester (165 grains) in the metal-cased, soft-point type are also adaptable to use in reloading the 8 mm. cartridge, and are efficient "killers" on deer if powder charges are employed that will insure the proper mushrooming of the bullet for this type of game.

If one desires a lightweight bullet for use on chucks to be speeded up higher than these previously mentioned heavier bullets, the 110-grain .32 Winchester Special Hi-Speed bullet can be utilized.

The reloader who is just interested in full-power, metal-cased-bullet loads can surely find a bullet among those mentioned that will prove desirable for his particular needs, with which to reload the 8 mm. cartridge for game shooting. Reloaders who are interested mainly in reduced loads have a fairly wide field from which to draw. Cast bullets, when charged with the proper load of the quicker-burning types of powder, will perform very nicely at ranges up to 100 yards. They are accurate and they are inexpensive. Breech pressures are low enough to permit reloading the cases many times before it is necessary to discard them.

One loading that has proved very accurate in the writer's Mauser was made up of Ideal bullet No. 321232 (a .32 Winchester Special cast bullet, weighing 175 grains, cast of an alloy of 90 per cent lead, 5 per cent tin, and 5 per cent antimony, sized to a .323 diameter), loaded ahead of fourteen grains of Hercules No. 2400 powder. Ideal bullet No. 319247, weighing 167 grains when cast of this same alloy, sized to .323, and used with No. 2400 powder in the same amount, shot very well also, but the former bullet showed the best grouping. I have also fired these same bullets, cast as soft as one part tin to sixteen parts lead for better mushrooming effect on small game.

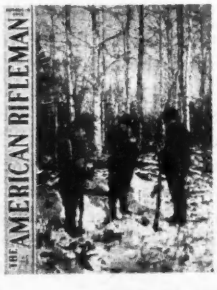
Practically all .32 caliber bullets that will cast up large enough to size to the same or slightly larger diameter than the bore size of the rifle in which they are to be used will, if the powder charges are "balanced" properly with the type and weight of the bullet used, give groups that will be satisfying to the average reloader.

Some reloading was done with this 8 mm. cartridge employing gas-check bullets with fairly heavy powder charges; but these proved unnecessarily powerful, so most of the reloading was confined to the use of plain-base bullets.

The illustration shows several complete cartridges of 8 mm. caliber, some of the cast bullets used by the writer, and some bullets recovered after firing. They show the mushrooming effects of the softer alloys; also of the heavy 236-grain soft-point, metal-cased bullet after firing with Number 2 Hi-Vel powder.

If 8 mm. cases are unobtainable through commercial channels, they can be made up through conversion of the .30-'06 case. An article in the June, 1944, issue of THE RIFLEMAN explains the method and the necessary tools with which to perform this work. ◆ ◆ ◆

THE COVER



Theodora B. Kerr, who furnished this colorful hunting scene, says: "Getting your check was like getting your buck on your first hunt, since that was my first attempt to sell a kodachrome. The picture was taken with a Kodak Bantam Special at f.8 and a twenty-fifth of a second, focused at about twenty-five feet. (I have a built-in range finder.) Four of us were debating directions to a lumber camp in the woods of upper Michigan during deer-hunting season, and I stepped out of the circle and took the shot."

LET'S HAVE GUNS—IN SETS

By B. B. BARKER

"FEAR THE MAN WHO HAS ONE GUN" has long been a maxim among shooters. And with good reason. It naturally follows that the person shooting the same firearm day in and day out will, in course of time, become so accustomed to its grip, feel, balance, and trigger pull that he will become expert with that weapon.

But what does the average sportsman do? The other day I looked over my own collection of guns: Three bolt-action .22's; three lever-action rifles; two double-barrel shotguns; one automatic shotgun; two Martini single-shot carbines—and so on. Mind you, I'm fond of all of them and wouldn't part with them for anything. But . . .

How on earth can the ordinary fellow with a few guns expect to get the best out of himself or of his guns if he persists in using not only a different gun but a different *type* gun—different weight, different balance, different sights, different method of operation—every time he goes out shooting? The rapid-fire expert on the Army range got that way by practicing daily with the same rifle till working the bolt without taking his eyes from the sights was second nature. Take a trap expert and ask him to fire three successive rounds with a double, a pump, and an automatic. Watch his scores drop! Yet I, and thousands of others like me, shoot with every kind of gun—and blame the results on the gun!

Let's have guns in sets! So far, the only people who have taken this matter up seriously have been the manufacturers of pistols and revolvers. Today, the man who aspires to be a good handgun shot can go to Smith & Wesson, Colt, or Webley and get an excellent heavy gun, and its .22 counterpart for use as a practice weapon. Apart from this, the only serious effort to produce "understudy" guns have been those made for the armed forces—the .22 rifles made exactly like the full-bore service rifles for practice and training.

Thousands of men who shoot with pump shotguns, if they shoot with a big rifle at all, use a lever action. Why, when there are perfectly good pump rifles on the market? Perhaps because Grandpappy shot Indians with a Henry! Those same men, if they had a .22 rifle also, are very apt to own one with a bolt action. So, they spend half the time trying to pump the fore-end off the bolt-action job—or crank the small of the butt off the pump—or turn over the back sight on the lever. (Remember the character in Kipling who said that when the Army handed in its Sniders for Martinis he took a month to get out of the habit of trying to turn the breech over by means of the back sight leaf?) Many shooters are doing much the same thing. They have to think, every time they reload, "Which gun have I got *this* time, and how does it work?" Maybe you're so used to all your guns that you handle them all automatically, without thinking; but I don't—and I'm sure many other shooters don't either.

Take the big rifle-shotgun-.22 proposition. Most people who shoot at all seriously have all three. (The special target jobs do not come into consideration at all for there are so many gadgets on some of those affairs that no one could possibly shoot anything but a target with them—and, in case anyone wants to take me up on it, I have done my turn at Bisley, too.) Suppose you chose a pump shotgun. There are lots of good ones. I don't happen to like them but maybe you do. With it, why not buy a Remington pump rifle chambered for, say, the .34 Remington cartridge and any one of the many excellent little .22 pumps that are on the market?

A double shotgun? Well, at present, double rifles are to be had only in the rather high-priced brackets; but I can see no reason why any good arms manufacturer shouldn't turn out good ones at reasonable prices if there were a demand for them. And for the man who uses the double shotgun, there could be no better weapon.

Things aren't so hopeful for the lever-action fan, if he wants a shotgun too. He can get good lever-action rifles, big bore and small; but there seems to be little prospect that anyone will make a lever-action shotgun again—unless Savage expands that auxiliary-.410-barrel idea of theirs and puts out a Model 99 shotgun. (Incidentally, I'd buy one, if they did!)

But when it comes to the automatics—and as the world returns to peace after a war that taught millions of men to use 'em, it looks as though we *would* come to them—the dream of matched sets of guns is realized. There are more automatic .22's on the market than one can shake a stick at. There are at least a couple of good automatic big-bore rifles. And there are plenty of good automatic shotguns. In this field, a man can stick to one type of action throughout the whole range of his shooting.

One would think that the manufacturers of sporting arms would have reasoned that it would make good sales talk to advertise "matched sets," just as the golf club makers did. But apparently gun manufacturers believe that when a man buys one of their guns he will like it so much that he will never buy another! That may be true of some persons, but the arms makers would have a poor time if it were universally true. Personally, I look forward to the day when some enterprising maker puts out a set—big-game rifle, varmint rifle, plinking rifle, and shotgun—all on the same action, with about the same feel and trigger pull. I will save up my dimes and buy the lot! . . . (And, after that, the first different action, new or old, that strikes my fancy—I'll buy that, too!) ● ● ●

THE CARBINE IS ILLEGAL

The National Firearms Act (No. 474-73rd Congress; as amended Aug. 1, 1938) prohibits the use by civilians of "any . . . shotgun or rifle having a barrel of less than eighteen inches in length" excepting rifles of .22 (or smaller) caliber having barrels sixteen inches or more long.

According to the War Department Basic Field Manual 23-7, "U. S. Carbine Caliber .30 M1," dated May 20, 1942, under Section 1, General Data, describes the carbine as having a barrel length of 17.75. Since the caliber of the weapon is larger than .22, this brings it within the meaning of the National Firearms Act quoted above.

Earlier carbines were made with barrels half an inch longer than the present 17.75 inches, making them a quarter of an inch above the legal limit. But even these, in civilian hands, are "illegal," because the War Department has never authorized the sale of any of these weapons and they are all (at least technically) "Government property."

But who cares? With its present cartridge, it ain't a weapon of much use to the sportsman, anyhow!—Hobart S. White.

WHEN THE CHIPS

IT HAS BEEN said before, but there's no harm in repeating the good axioms that "it's the shot that hits that pays off"—and that it's usually the stand-up, offhand shot on which the pay-off is hinged. . . . In the case of Tommy Holmes and "Old Man" Day, one such shot made all the difference between life and death.

It was always about the last of March when Old Man Day would spill his logs down the Squawwash River to the saw mill at Shaddock's Crossing. He and his crew went up into the woods every fall, and no one ever heard tell of them again until the ice went out; but when the Squawwash churned full to overflowing with smashed ice until it looked like pearl tapioca and marshmallow fluff, we knew the logs would soon come plunging down.

I was down cellar one evening, busy at the illegal task of plucking a goose. A "V" of wild geese had flown over that day, headed into a southeast gale, and Dad had run out with his .30-40 deer rifle to signal to them that they should sit down for a rest. Dad always had a heap of sympathy for a guy who had paddled all day against a river current, and "flying a head wind must be even worse," he said; so, he tried to signal these geese down. But he must have been excited and shot closer than he intended because one poor thing came down like a flak-hit bomber, just beyond our great pile of newly split stovewood. There was nothing we could do to get that goose into the air again, so Dad said, "Well, you might as well feather him. There ain't no point in lettin' good meat go to waste."

So I was down cellar with a lantern, undressing this goose, when I heard someone out front scraping off mud. The trap door lifted a little bit and Dad called down, "Better slip that woodcock under a barrel and come up. Someone's out front."

We had a natural spring in our cellar, so my hands presented no incriminating evidence when I came up to greet the caller. But it was only Tommy Holmes, my eighteen-year-old chum. We sat around and talked about our muskrat sets for a while, and then Tommy came to the point.

"I saw Old Man Day and one of his men this afternoon."

"What's he doin' down here, ahead of the run?" Dad wanted to know.

"Seems they're all jammed up in the Narrows," Tommy said. "Wyman Slats, Day's foreman, told me he never saw such a snarl in his life. They've blowed off all the dynamite they had, tryin' to break the jam, and they ain't budged it."

Dad said, "If it's that bad, the river must be risin' behind the Narrows. . . . And there's an old gulley there which could carry the water if the main channel is really plugged up. The river used it once."

"That's just it," Tommy agreed. "Wyman said that if the jam holds much longer the Squawwash'll scour out the old bed and leave Day's logs high and dry."

"What's he goin' to do?" Dad asked.

Tommy's eyes sparkled. "Wyman said they're gettin' more dynamite and aim to blow out that big midstream boulder and see if that won't open up the run. What do you say we go up tomorrow, early, and watch the fireworks?"

Dad had one more question, "Do you know if Day and his boss were getting drills sharpened? If they were after drills, I know what they're goin' to try—and it's a risky thing!"

Tommy's eyes held the same green glint that showed in them when he shot those possibles at the Beaver Rifle Lodge. "They had Joe West drive all the way down from Union to sharpen a whole armful of drills."

Dad said to me, "You better finish your job on that chickadee. It's time we turned in. It's a good fifteen miles over muskeg and ridge to that jam. We'll need to start early."

It was not raining next morning when we set out, but it had come down in sheets all night, with wind whooping over the horizon. The wind was gone now and there were ribbons of vapor all over our valley and deep in all the pockets of the dank forest land. Crows ran their relay telegraph ahead of us as we climbed up and over the hogback ridges, and once Tommy paused to knock one of their lookouts into crow heaven with the Lyman-sighted .22 Special Winchester he carried. This was a tree-rest shot at 125 yards, but there was nothing surprising about it—for Tommy.

For Tommy Holmes was nothing if not phenomenally proficient in the matter of placing lead with that glorified .22 caliber. He was good at targets, and he was good in the woods; and neighbors had a habit of calling on him to drop their beef animals and

"I believe in our teen-age kids. Those kids, almost without exception, boys and girls alike, want to shoot. Get them started shooting—started *right*, under proper instruction—and shooting outranks most other sports in their preference.

"I believe also in shooting and in what shooting can do for those kids. There is something about becoming a better shot in a well-run club that develops precision and dependability in other matters. The improvement extends even to the extreme of producing better grades in school and better homework papers! I have never yet known a boy to develop to the grade of Sharpshooter, Junior Grade, who did not give real evidence of character development, all along the line. Nor have I ever known such a lad to be careless in the handling of a gun.

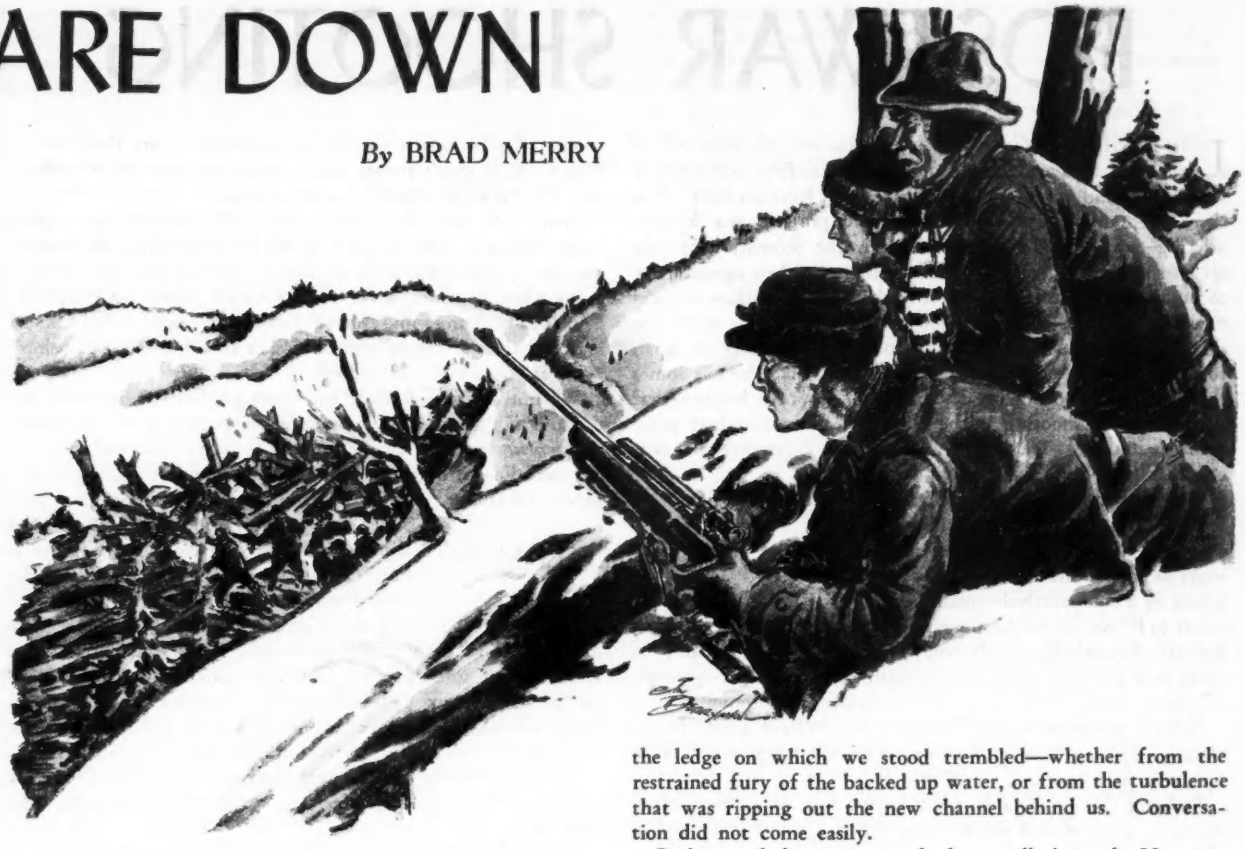
"The raw material is not lacking. Boys and girls everywhere are begging for the privilege of becoming riflemen and riflewomen. Others who are *not* begging for that privilege now, who are actually or potentially a part of the "youth problem" over which so many solemn heads are shaking, *would* join enthusiastically into a shooting program if adequate facilities were offered—thereby solving much of the "problem."

"Three things only are needed: guns to shoot, ranges on which to shoot them—and skilled instruction and supervision.

"It's our problem. How will we solve it?"—*Brad Merry.*

ARE DOWN

By BRAD MERRY



Wherever marksmanship is a part of any teaching program, authorities agree that it provides the best possible developer of self-control and character. This boy marksman had what it took to "hold and squeeze" when a man's life was at stake.

hogs on "slaughter day." "It's not the size of the bullet or the grains of powder that stuns them," Tommy would explain patiently. "It's just a matter of finding—and hitting—the vital spot."

Just before noon the voice of the river began to be heard above the pulsing of our hearts, and we knew that our trek was about ended. A steady "tick, tick" cut incisively through the crescendo as we climbed up through the spume toward a little gneiss plateau.

"They are drilling," Dad panted, and we scrambled after him with renewed excitement up the forty-five-degree climb to where we could see the river.

It was a sight to remember: The river, blocked by that mighty tangle of crisscrossed, groaning, straining logs—and two men down under the front face of that tangle, like two heroic ants under the toppling face of a pile of giant jackstraws. Day, himself, was holding the drill while a red-capped Frenchman wielded the hammer that drove the drill into the face of that boulder. . . .

And, as they worked, water (at 32 degrees Fahrenheit) poured pressure on those towering tons of logs and ice. Even the ledge on which we stood trembled—whether from the restrained fury of the backed up water, or from the turbulence that was ripping out the new channel behind us. Conversation did not come easily.

Dad crossed the stream on the logs, well above the Narrows, to talk with the waiting men. He returned with grim news: "They've got to set her off with a fuse. Day is putting in thirty sticks, and won't let no one light it but himself. He didn't even want Blair out there with him, but he had to have help on the drilling." Dad's eyes showed worry. "Too bad if anything was to happen to a man like that. I hope . . ."

"Why, for Pete's sake, did they let all their logs go at once?" I asked.

"They didn't mean to," Dad said. "Their shore stakes gave away in that last thaw, and let the whole run down the bank in one pile-up."

Tommy was sighting through his Lyman peep at a curl of foam, 200 feet below and to our left. He said, "Did you find out when they're going to shoot her off?"

"They've been drillin' steady since seven this mornin'," Dad said. "He's about ready to place the charge."

"Think we're O. K. up here?" I asked Dad. "I don't seem to have much idea what thirty sticks of dynamite will do."

Dad nodded and pointed to where Day and his red-capped hammerman were working their way ashore. They made it, finally, and sat on the bank to munch food that the cook dug up for them. Then Wyman Slats peeled back a canvas and stood gingerly holding a bundle of short rods.

We were not climbing now, but my heart resumed its double time. This was a dangerous setup, and I could feel the tension piling up inside me and around me.

There was an argument on the riverbank below us. We could see the gestures and we knew (*Continued on page* 13)

POSTWAR SHOOTING

By ALLYN H. TEDMON

IF HALF THE POSTWAR PLANS are carried out, the hills will be leveled and paved, the Missouri River will flow north to the Bering Sea, and every trickle of water will have its dam. But there are some worth-while, reasonable projects worth considering—and not the least of these is the promotion of rifle target shooting. If our rifle clubs will rise to their opportunity to build on the interest in shooting that several million servicemen now have, a wonderful job can be done. The men who sent the "supermen" of Germany and the gun fodder of Japan to their honorable ancestors can be taught that there is something to rifle shooting besides killing Old World heroes—that American rifle shooting is the oldest, cleanest, and best game we have to offer. They already know from experience that it is one that pays dividends.

The sixty-four-dollar question is—how is this to be done?

Well, if you are not kidding yourself, you will admit that for the past thirty years or so, at least, the sport has been followed by a comparatively small group. Interest in it has not been comparable with that shown in football, baseball, basketball, or golf; and, for the life of me, I can't see what golf has that rifle shooting hasn't a lot more of—except, of course, that golf has a lot of well-paid coach-promoters.

Why is it any more sensible for a city to have a golf course than a rifle range? But they *don't* have the range and they *do* have the golf course. . . . Why?

Judging the game from what I have seen of it these many years, in a lot of our clubs the members are not interested in the game for the game's sake, or for the Nation's sake. They are in it for their *own* sake; for what they, themselves, can win for themselves. Of course, that is only human; but it is too damned human for the good of a game as nationally worth while as rifle shooting. For instance, right now, how many of these rifle club members are individually helping boys who are coming of induction age? It's a shamefully small percentage.

Of course, you will instantly "point with pride" to the job being done by the NRA in its youth-training program. Sure, I agree. I point out the fact that the job is being done by a very small, faithful, patriotic percentage of the whole NRA membership, and the same applies to the individual clubs.

Another weakness is that we (usually) fail to sell our local rifle club to our local editor. When the Rand Rifle Club (North Park, Colorado) lived (before the passing of its godfather, the great Ed. Howard), that club was the whole show in North Park. If this were true in North Park, why shouldn't the rifle clubs of Denver, for instance, also be up in the sports headlines? But they aren't. Why? Well, don't forget that newspapers print news—which ties right in with what I have to suggest.

First: Sell the cash customers on rifle shooting as a sport worth seeing by getting some of these paid coach-promoters on the job. Second: Revamp our match programs to include some flashy three-bag hits, home runs, forward passes, and the like. Third: The game must have front-page idols who will be matched for the "Midwestern Division 100-shot Championship" with, at least, $500 cash added.

We must have publicity and more publicity; and the game can and will get publicity whenever the copy is worth the space, and *whenever you give the editor the copy*. The gallery must pay real dinero to get in, no more free shows at the big ranges except, of course, that we will slip in as many reporters as possible, free gratis, for nothing; might even slip them a beer or two if the weather is hot. Build the matches up ahead and the crowd will come all right.

People don't go to football games because they know very much about football. They go because the sports writers boom up the game until people think they can't afford to miss it. So, by gosh, they go—bellyache or smallpox, rain or snow. They yell and wave flags and wear flowers and have a whale of a time. If we really want to interest the public, we have got to get away from the funereal atmosphere of our important matches. Add some flowers! Let the spectators root, boo, and cheer.

Take polo. Yep, I played polo, years and years ago. I'll bet you never even saw a game. Why? Because polo is a sort of an exclusive million-dollar kind of sport and usually, no gate is charged. It's free. That's why, for one thing, you and millions of others never saw a game. The only things people get for nothing are jobs on the WPA and Christmas neckties, neither of which are very desirable!

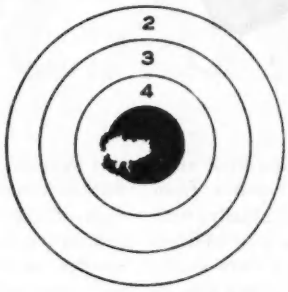
"It won't be heaven to me if I can't have my guns!"

And how shall we go about trying to make a rifle match more interesting to the grandstand coaching staff?

First: There must be enough cash prize money up so that it talks real competition language. Sinkers and smoking tobacco are O.K., but few medals can talk in the same room with good old U. S. dollars. As I once told you, Jim Dunse, Range Officer of the Colorado Rifle Club and the old-time secretary of the once very top-notch Denver Rifle Club, sneers at the penny-and-old-age-token premiums now going to rifle match winners. When Jim was IT, the winner of a match grabbed off a pocketful of potatoes. He told me of one time when he

had over $700 in his pocket as the club's bonus from one day's shoot. Money talks! If it is worth cash to smack a little white ball around a glorified cow pasture, then it's worth cash to the fellow who can plant a little lead pill right where the Jappy lives. In other words, if you are going to make rifle shooting popular, you simply must make it worth while for the fellows who will put on the show.

Second: See to it that every high school and college has a rifle team as a part of its regular athletic activities. See to it that there are plenty of shoulder-to-shoulder and postal matches, to be rewarded with suitable medals and (above all) the award of the school's athletic letter. I won my prep-school letter shooting a rifle; but that was years ago and we had a real he-man headmaster.



Third: Have handicap matches on the program for all ages of shooters. Give the also-ran a chance.

Fourth: Have more Rapid-Fire matches, both indoor and out, using self-loading rifles and surprise targets.

Fifth: Especially for small-bore shooting, why can't some guy smarter than I am work out an electrical hookup that would show instantly to the audience the exact spot where the contestant's shot lands and the score it registers? Again for small bore, why not have some rapid fire at bustable or knockdown targets similar to our old-time shooting galleries?

The range itself might be arranged like a three- or five-ring circus. At all big matches there should be an announcer; rather, an explainer, such as they have at most football games now. A clever announcer could make a rifle match compare favorably with the best of other sports. There should be an information booth, also, where the interested can get the lowdown.

Paid coaches in charge of rental rifles and ammunition (no more free ammunition or lending rifles) should be on hand during the hours the big ranges are open, so that spectators whose interest is aroused can try the game themselves. Daily, weekly, monthly re-entry matches should be run at least through the winter months, with suitable cash and trophy awards. Such matches would be top news.

One thing, in my opinion, is certain—if we go on with the same old 999 X's belly game and nothing new and snappy, the game will make progress backward. Understand that, for such de luxe ranges as I have mentioned, I have in mind municipal and/or publicly owned or endowed ranges. Not every little rifle club could do such things. But such ranges *can* be built, and if the demand insists they *will* be built.

No doubt a lot of you fellows will say the game is good enough as it is; and maybe you are right. But remember that during the past twenty years you have been playing the game your way, hardly 2 per cent of our American boys learned to shoot a rifle. That is the record that the present Army and Navy induction lists show. In other words, you and I muffed the greatest opportunity any group of men ever had.

We must see things as they are. We must revise our mental attitude and the actual planning of our rifle ranges. As the late Chauncey Thomas so often told me, "History rolls." Times and ideas change. It is the game itself that we must think of; the game as a major American sport—the sport that makes self-reliant men of our boys; that gives them the skill to protect their home and their country. It is up to our rifle clubs to do this important patriotic job. It's time we *gave* something rather than seeking to be forever on the receiving end. ♦ ♦ ♦

When The Chips Are Down

(*Continued from page* 11)

the quarrel, even though the river drowned out the voices. But Old Man Day won, as usual, and returned, alone this time, to that perforated granite boulder. We saw him stoop and place the deadly load he carried—then rise and thread his way back to shore and out again with more explosives. This time, a little coil of white fuse hung over his left arm, and we fidgeted on our ledge, Dad's fingers gripping the lip of the escarpment until the knuckles showed as pale as the foam below us. The sun got itself briefly doused behind clouds. The chill that engulfed us was not reassuring.

Already there were ominous shiftings of the logs along the front of the jam. Once, bouquet of "sticks" snapped up and spanked so hard that their ends splintered and looked like shaving brushes.

Dad's voice cracked out: "God, man! Light the fuse quick and git ashore! That's a hell of a place for an afternoon nap!"

And then we saw it—a pale blue curl of smoke threading through and around the chaos of the river block. Day's black-and-green plaid coat lifted and began working its basket-weave course toward the shore. The men on the bank were dancing like a circle of kids, and their cries, as they came up to us, sounded like spring peepers on the far edge of a dream. Something tugged at my mackinaw. It was Dad, yelling at me, "Flatten out on the rock. Let the concussion pass on over you."

I think it was in that same instant that the Squawwash reshuffled its cards, so to speak. The logs shifted suddenly and Day fell. It was a moment before we realized what had happened. But then the sickening truth lay before us. Old Man Day was trapped—held by pinching logs that gripped his leg, held fast fifty feet from shore while pale blue smoke from the lit fuse continued to curl up behind him.

As we gaped, the sun shook itself free; something the man in the deadfall yonder could never do. Sunlight slanted in from the zenith and warmed us—and showed us plainly the ghostly cord that lay against a log's brown skin.

Beside me, Tommy Holmes groaned in his throat, and then stood up; stood up into the offhand shooting stance. Dad and I lay there on the ledge and watched him—and held our breaths.

Tommy did not hurry that shot. I saw his breath of air, half let out; saw one upward hunch of the left shoulder. . . . The sun upon a fuse; a blue jay's flight across our line of vision. The rest was easy. There was no commotion—just one sharp little bark and a pale thing coiling upon itself before it fell away between the logs. . . .

Five minutes of careful prying freed Day, and this time the red-capped Blair placed a second fuse. And then we saw what we had come to see—Day's logs rushing pell-mell toward the saws at Shaddock's Crossing.

There is such a thing as luck, of course. There is also the ability to come through when the chips are down, even when those chips represent a brave man's life. ♦ ♦ ♦

This Remington Model 31 pump-action repeating shotgun, with selected walnut stock, fine checkering, and beautiful hand engraving and gold inlay, has real beauty.

BUY A

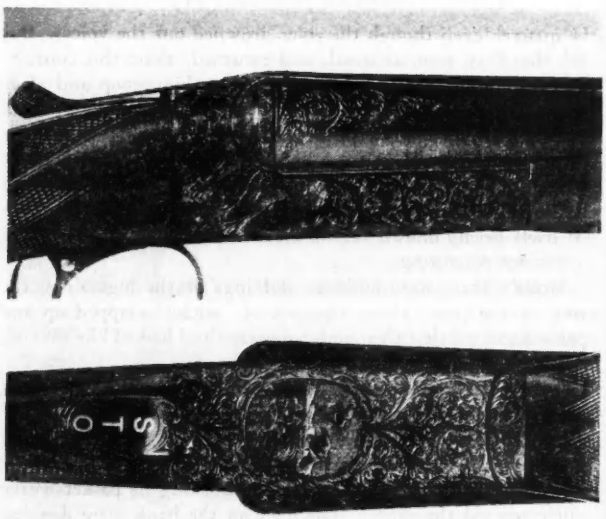
BEFORE THE WAR, a great many fine custom-built rifles and shotguns were imported into this country from England and Europe. These arms were, usually, very expensive weapons—and naturally so since, in addition to customs tariff and the hazards of exchange, they were almost entirely of slow, painstaking hand manufacture. Most English and European weapons of the finer grades are made piece by piece, by hand, by a number of gunsmiths at widely different locations, and the various parts are then assembled by some firm who fit and finish them into the finished weapon. So made, even the plain grades will cost considerably more than the same quality weapon made here at home by the cheap, fast, machine-production methods by which most American arms are made.

But this does not mean that expensive, imported European guns are necessarily better (or even more beautiful) than comparable weapons made here. Where a custom gunsmith in England or Europe may spend days slowly filing and cutting out a gun frame, or just as slowly making all lock parts by hand, American companies quickly mill those parts from forgings, then hand finish the parts down to a perfect fit. The actual fact is that American arms companies can, and do, make much finer arms at a low price than are possible to produce by slow and costly hand methods. The repeating shotgun, an American invention, is a fair example of this. It would be utterly impossible to buy as good-shooting and as well-made repeating shotguns in England or Europe, even if they were made there, at the low cost for which they are currently sold here—if only because the hand manufacture of the many parts to the necessary close tolerances would prohibit it.

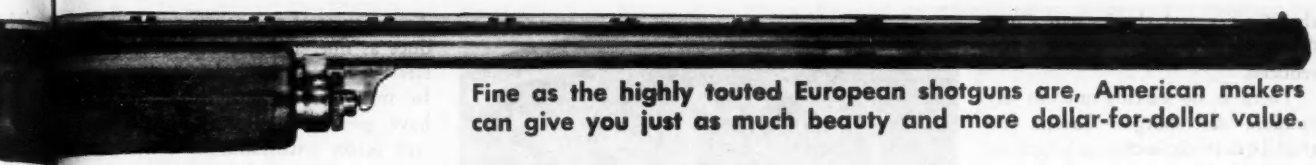
Even in our highest-priced double-barrel or repeating shotguns, the total cost is greatly reduced due to American machine-tool methods of manufacture of all parts except stocks and fore-ends. For this reason, American manufacturers can give the sportsman a great deal more actual value for the same money than can English or European makers. Formerly, over-under double shotguns were produced only abroad and at prohibitive prices. Remington first exploded the myth that only foreign makers could build a fine over-under. They produced an over-under that shot and handled just as well as the expensive foreigners, and sold it at a fraction of the usual cost, not only in cheap plain grades, but also in fine, presentation, hand-finished arms made to satisfy the most discriminating taste. Savage, Stevens, and Marlin followed suit with fine-shooting over-under double guns at very low cost.

Most fine English and European double guns have a multiple bolting or locking system, very expensive to make and fit; but it is questionable whether all those bolts are in equal contact with the under lugs and cuts in the extended rib of the cross-bolt systems. Usually, unless the very finest and most skilled workmen are employed, it will be found that one bolt is doing most of the work while the others are not in perfect contact and do not aid much in the locking of the gun. Too, such a number of lugs and bolts usually means a cutting out and weakening of the gun frame. American makers secure just as reliable a locking system, and usually an even more reliable one, by the use of a single, well-fitted bolt, either the under-bolt system used by Parker and Winchester on their Model 21, or the well-known American invention, the rotary bolt, invented and brought out by Smith. Of all double shotgun fastenings, it is problematical if any surpass the rotary-bolt system. It is extremely simple and automatically takes up its own wear. I have used hammer-model L. C. Smith guns over fifty years old that were still as tight in the action as they were the day they were made.

Ithaca, L. C. Smith, and Fox all now use the rotary bolt, and it is doubtful if a better shotgun fastening can be found. Parkers have a unique method of taking up wear on their single, heavy, under bolt by the employment of a hardened steel plate on top of the under lug. As the bolt wears, this plate can be replaced by a thicker one and all wear can be taken up until the top lever remains over on the right of the tang.



Magnificent example of both the gun maker's and gun decorator's arts in this hand-engraved and inlayed custom-built double-barreled Winchester Model 21, made for Spencer T. Olin, of Western Cartridge Co.



Fine as the highly touted European shotguns are, American makers can give you just as much beauty and more dollar-for-dollar value.

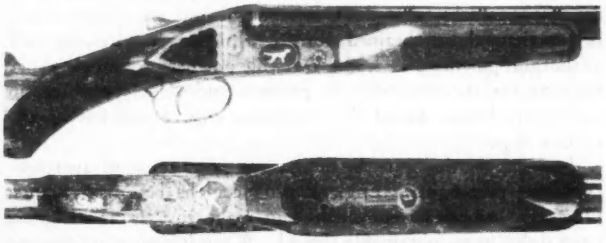
AMERICAN

By ELMER KEITH

If an American gun becomes worn, or if a part breaks, you have only to box and ship it to the maker right here in this country for complete overhaul or part replacement and at a minimum of cost. Not so, if you break a spring or other part in an expensive English or European arm. If obtainable at all, you will have to wait months, and the parts will cost you plenty—as I learned when I had to replace mainsprings in a fine old double Greener.

Many sportsmen think that only a side-lock weapon can be a best-quality gun. Such is not the case. A side lock does offer more room for ornamentation (both engraving and gold inlay) in the higher-priced guns. It also makes a heavier gun for the same relative barrel, frame, and stock weight. Furthermore, the stock is honeycombed at its juncture with the frame for the side-lock parts until the big side plates are a real necessity to hold stock and frame together. A box lock of the Anson & Deeley type is much simpler, leaves a much stronger stock at the junction with the frame, and, last but not least, makes up into a lighter weapon in proportion to barrel and stock weight.

An Ithaca thousand-dollar-grade double, fit for the most exacting.



Extremely lightweight foreign weapons are a fad, and one never likely to become popular in this country. First, such extreme lightweight weapons are usually built in 12 gauge and for short two-inch cases with light one-ounce loads. I can see no sense in packing a 12 bore gun around and shooting a 20 gauge load. In England and Europe, such arms formerly were used chiefly in shooting driven pheasants at close range; hence, the light loads and short barrels. In this country, about the only short-range work we have is on quail, woodcock, and ruffed grouse in heavy cover, and occasionally where other game birds inhabit heavy cover. For such shooting there is probably nothing better than our present American skeet guns, both in weight, length of barrels, and boring. Second, American loads generally are much heavier than foreign shotgun loads and require more gun weight, unless the shooter wishes a gun headache. And, third, the ultralightweight foreign weapons will not stand the pressure of our heavy loads for any length of time.

Too little weight in a gun means greatly increased recoil, just as too short barrels mean greatly increased report and muzzle blast. If we want to shoot one ounce of shot, then a 16 gauge will handle it practically as well as will a 12, and there is no reason to pack a heavy 12 gauge gun, or to pay a high premium for one in which the weight is reduced. All our great gun companies will build fine double guns in any bore, from Magnum 410 with three-inch shell, up through the 28 gauge, 20 gauge, 16 gauge, 12 gauge, and 10 gauge, to the mighty and excellent Ithaca Magnum 10 bore. We can have as light a gun as we desire, made right here at home—and, also, for the same money one first-class imported weapon would cost, a slim, neat, fast-handling arm in one of the smaller bores.

A Parker "A.H.E." Grade double, richly engraved with scroll and game designs, beautifully stocked.

No one anywhere can bore any better-shooting barrels than are made by our American companies, regardless of the cost of the finished weapon. American makers can polish the inside of the tubes just as highly as anyone, and our better-grade arms leave nothing to be desired in patterning qualities. Even our cheapest arms usually will pattern as well as any procurable, if the load is selected to fit the choke. If a lightweight arm is desired for reasonably close-range shooting with a small charge of shot, then our 20 or smaller bores will fill the bill. Any desired degree of choke may be had for the asking in either tube, and one can have two sets of barrels built for the same gun at considerably less cost than the same grade of arm would cost abroad with a single set of barrels. In addition to all that, for the great army of Americans who use and like the repeating shotgun, either the autoloading or pump action, we have three excellent devices to give them any desired pattern for the particular kind of shooting they are doing. The Lyman Cutts Compensator and the Weaver Choke both give the shooter a choice of choke degree by the simple expedient of changing the tubes on the muzzle. With different tubes he can secure anything from an 80 per cent pattern down to an improved cylinder or skeet tube, all on the same gun. With the unique little Poly-Choke, he can secure any desired pattern on a second's notice merely by turning the sleeve with his fingers. With both

the Weaver and the Lyman Cutts Compensator, the recoil is greatly reduced.

There is no earthly use, in my opinion, for shotgun barrels less than twenty-six inches in length on double-barrel guns, even for skeet or close-cover shooting. Where long-range shooting is the rule, long barrels will give a longer sighting plane and more accurate gun pointing. American makers will gladly turn out two sets of barrels, one set thirty-two inches long for long-range wildfowl shooting, and another set with twenty-six-inch barrels for skeet or close-range upland work. If a standard forearm or thin, lightweight beavertail is used on the longer barrels, the same perfect balance of the arm can be maintained with short barrels by having a thicker, heavier beaver-tail forearm for the short barrels.

Fine engraving on a Model 12 Winchester owned by Glen Martin.

American makers can balance a gun just as well as any makers anywhere can do, and American arms will always be suitable for handling the heaviest American loads for a given length of paper shell case; something not always true of foreign arms.

When it comes to shape, quality of wood, and design of stocks, American makers have no superior anywhere. All our higher-grade arms are custom stocked. The shooter can write his own ticket and it will be perfectly executed to the last detail. All our big companies, as well as a great many custom gunsmiths, in this country have one or more top-flight gun stockers in their shops; men who are capable of executing any design in the finest woods, exactly to fit any individual's physical conformation and taste. They can also turn out anything desired in the way of checkering and carving. Usually, European arms have too much carving. For my taste, a fine gunstock looks much better with only a fancy carved border and really fine checkering. No man appreciates the beauty of a fine English gun more than I do, but the fact remains that our own makers can turn out as well-finished an arm for less cost, even if we want elaborate engraving and inlay work. All our big companies carry one or two superb gun engravers on their pay roll. True, they may have learned their trade in Europe, but the fact remains that we have just as fine engravers here at home as can be found abroad. They will cheerfully execute any design, in either engraving or raised bas-relief inlay work, that the most discriminating sportsman may desire.

When it comes to fitting wood to steel, or fitting barrels to frames, or making and fitting lock and action parts on high-grade guns, this work is always done, both here and abroad, entirely by hand, by the finest workmen. Only the most skilled workmen are allowed to touch the finer arms, and the higher-grade arms produced in America are not surpassed anywhere in the world. Yet Mr. Average American Sportsman of limited means can buy as good-shooting and as reliable a gun in the cheaper machine-made grades for a fraction of what it would cost to produce it abroad, even without duty.

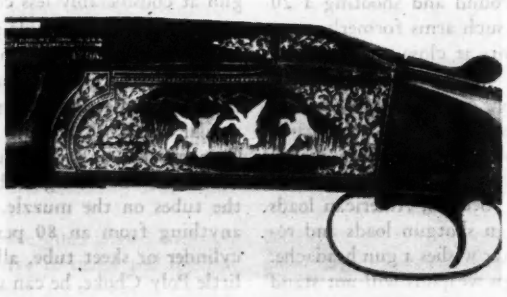
As to steel for barrels and frames, American steel companies now produce as fine, as hard, and as tough steels as were ever produced abroad. In many cases, our barrel steels have greater tensile strength and will better withstand the continuous pounding of heavy American loads than will those of foreign make.

In fine double rifles, we have a legitimate excuse for importing fine arms. The repeating rifle was developed early in American history and American sportsmen usually prefer it. However, those who have used fine English double rifles for timber shooting soon have become acquainted with their advantages over almost any repeating rifle. English and European sportsman have stuck to their excellent double rifles and, in the main, they have hunted a great deal more heavy game than have Americans. Nevertheless, if American makers were confronted with sufficient demand, they could and would produce just as fine double-barreled rifles as those we now obtain from abroad, and probably with far tougher, longer-wearing barrels. American craftsmen could learn to regulate two rifle tubes to shoot together just as well as foreign makers can do, if they were called upon to do so. Back in the late 80's, Colt produced some excellent and wonderfully accurate double-barrel rifles in large black-powder calibers. If they could do it then, they can do it now.

When it comes to modern rifles, American-made weapons in either bolt or lever actions offer the sportsman a great deal more for his money than can be obtained abroad. Our rifle barrels are usually of tougher and longer-wearing steel, and are far more accurately bored and rifled for a given cartridge than are any obtainable abroad. Our stock designs are usually much better than those obtained abroad. In rifle powders, as well as shotgun powders, we lead. Our rifle powders are much cooler burning for the same relative pressure and velocity, which, in turn gives longer barrel life than hot, erosive powders of the cordite type.

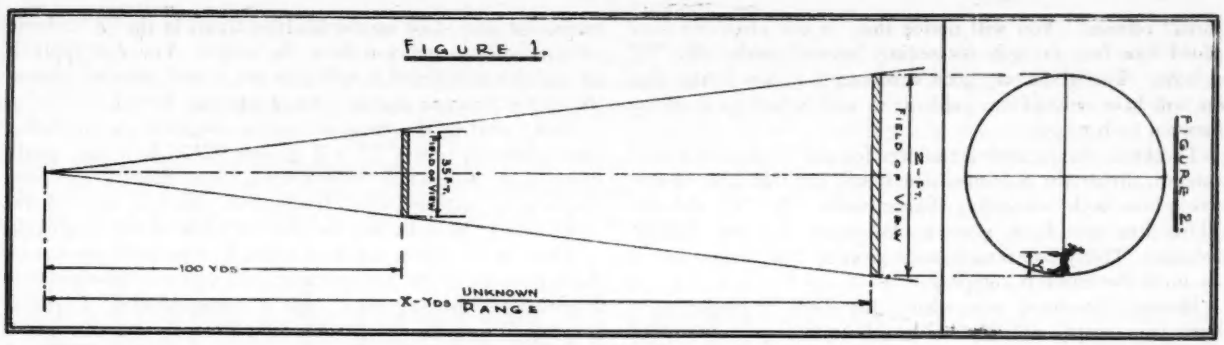
America also leads in the design and production of aperture-type rear rifle sights. England produces the best open sights. However, American gunsmiths *can* make just as fine Express open sights as are obtainable abroad. When it comes to telescope mounts, we have many of American make that offer more good qualities as to position, low-cost simplicity, and ease of removal or replacement than do any obtainable from foreign companies.

In short, our great rifle-making firms turn out repeating rifles of both bolt and lever action, in standard grades not equalled anywhere in the world for accuracy or handling qualities, and they will also turn out these weapons with as much ornamentation and fine stocking as desired. Our custom rifle makers can do the same.



Gold inlay on this fine Remington equals any money can buy.

Now, only secondhand weapons are obtainable for sporting use; but now that the war has ended we may expect our own great arms makers soon again to turn out anything we desire in the way of fine arms. Buy American, and you'll get better guns for less money. ◆ ◆ ◆



Factory specifications for sighting scopes always include the width of the field of view at a known range, usually 100 yards. Given these two facts, plus a knowledge of the average size of the game, it's easy to find distance between the shooter and the game seen through the scope

The Hunting Scope as a Range Finder

By RICHARD H. BARTLETT

THIRTY-FIVE FEET is to 100 yards as fifty feet is to "X" yards. "X" equals 100 times fifty divided by thirty-five, or 143 yards. Allow for bullet performance, squeeze it off . . . and call up your pack horse.

Does that sound complicated? It's merely the old, old problem of how to use your scope as a range finder; a problem as old as the scope sight itself.

A lot has been written about it. Not so very long ago, Jack O'Conner wrote an interesting article on reticules that included a discussion of the famous Lee reticule dot which, in the opinion of many shooters, is unbeatable as a fast means of judging the amount of yardage between you and the wily "what-ever-you-are-hunting!" The Lee dot does give you a known factor (which you must have) in that the dot in the center of your cross hairs subtends fractions of an inch or inches at certain known ranges. You have only to know the approximate size of your game to be able to figure its range. So much for the dot. I'm all for it. In fact, I have a Weaver 330 equipped with two dots; one for 100 yards and the other for 200, mounted on a .30-40.

But suppose your scope doesn't have that dot. How can you figure range then?

The method outlined here follows the basic principles incorporated in the Sperry computing gun sight mounted on tactical aircraft. The pilot adjusts two vertical hairs of the scope to bracket an enemy plane, then turns a selector knob to the known size of that particular enemy plane, and the sight automatically makes all further allowances, such as range and path of bullet flight.

But a hunting scope won't do that. Take a 330 Weaver rifle scope with plain cross hairs. Nothing is automatic, as in the case of the Sperry, but we do have a known factor, supplied by the factory. That is: "The field of vision at 100 yards is thirty-five feet." That's where we get the first two figures of the equation in Paragraph One above: Thirty-five feet is to 100 yards.

Z IN FT	RANGE IN YARDS
35	100
40	114
45	128
50	143
55	157
60	171
65	186
70	200
75	214
80	228
85	243
90	257
95	271
100	286
105	300
110	314
115	329
120	343
125	357
130	371
135	386
140	400
145	414
150	428
155	442
160	457
165	471
170	486
175	500
180	514
185	528
190	543
200	571
205	585
210	600

Fig. 3—Average length, shoulder to rump, of common game animals:
Grizzly 5 to 7 ft.
Deer 5 ft.
Elk 5 to 6 ft.
Chuck 1 ft.
Complete the list to suit your own needs.

Our problem is to find the unknown yardage, "X." To find "X" we must first find "Z,"—"Z" being the field of vision at the point where our game is situated. (See Figure 1.) To find "Z," apply the unknown "Y," as shown in Figure 2. Let us say that the game measures five feet from chest to rump, and his body length equals one-tenth of the length of the horizontal hair, or "Z." Since the length of the horizontal hair equals the field of view at any given range, and since one-tenth of the horizontal hair equals five feet at the range now in question, the field of view at this range equals ten times five, or fifty feet. Therefore, "Z" equals fifty feet.

We now have three of the necessary figures for our equation: Thirty-five feet is to 100 yards as fifty feet is to "X" yards. To solve for "X" in such an equation, remembering that "the product of the means equals the product of the extremes," we have:

$$X = \frac{100 \times 50}{35} \text{ or } X = 143 \text{ yards}$$

The question is, will the game stand patiently waiting while you go through all these mathematical gymnastics? Well, to make the problem easier, you can prepare a chart beforehand to which you may readily refer after having made the one calculation of multiplying the fraction of scope hair covering the animal by the estimated size of that animal.

The chart in Figure 3 has been determined for a 330 Weaver with a field of vision of thirty-five feet at 100 yards. You will understand, of course, that another chart must be made for any other scope having a different field of vision.

You shouldn't worry much about hitting game at ranges up to 100 yards, so that is the shortest range we need to include on our chart. That range is already worked out for us by the manufacturer's statement: "Field of view, thirty-five feet at 100 yards." Under the "Z *in ft.*" column, put thirty-five opposite 100 in the "Range in

yards" column. You will notice that, in our chart we have added five feet in each succeeding instance under the "Z" column. This gives very good coverage, as you will find that we will have only fifteen yards or so with which to speculate between each range.

To obtain the successive readings for the "Range in yards" column, divide the field-of-vision figure (in this case, thirty-five) into each succeeding figure under the "Z" column. Thirty-five into forty gives us 114 yards for the "Range" column. Thirty-five into seventy gives us 200 yards—and so on until the chart is complete.

Having completed your chart, any time you spot game with your scope, multiply his length from stem to stern by the number of times his image will go into the length of the horizontal hair—look up the resulting figure in the "Z" column of your chart—and you have the range. You can apply it to any size animal and it will give you a very accurate answer. Try it for varmint shooting, using one foot for "Y."

Now, what is the error in human judgment in estimating the number of times "Y" will go into "Z"? It is very small. Many tests were made with friends, both hunters and non-hunters, in judging what fraction of the hair covered the animal, and the error was so small as to be almost negligible.

There it is! Work out your table, starting with the known field of vision at the known range, and you will have a system whereby you may use your scope as a range finder. I tried it and found it to be successful. Here's hoping you will find it to be just as successful. ♦ ♦ ♦

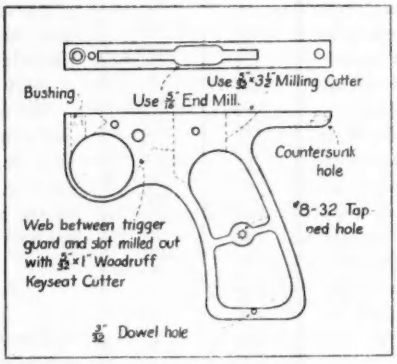
REBUILDING A BENJAMIN

By ARNOLD R. BONE

HERE'S A REMODELING JOB on a Benjamin air pistol that may be of interest to shooters who like this weapon for fireside practice, but who are not satisfied with the "feel," balance, and trigger pull of the pistol "as issued." The alteration here shown involved a complete new frame, trigger mechanism, and pump handle.

My first step was to make several wooden models, and then the drawings. Both my wife and I like to shoot and, after the war, we hope to get a Smith & Wesson .22-32; so I tried to design a grip which would suit both of us, and which would hang and feel as much like the S&W as possible.

The new frame was cut from a piece of seven-sixteenths-inch cold-rolled steel. The trigger opening and the inside of the handle were drilled out, and the slots for the trigger mechanism were milled. About four hours of hack sawing and filing brought the frame into pretty good shape. It will be noticed that the front screw hole is counterbored from the trigger opening. This was done by drilling straight through with a drill the size of the screwhead, and then pressing into this hole a bushing of the correct size.


Use 5/32"x3/4" Milling Cutter
Bushing
Use 5/32" End Mill.
Countersunk hole
8-32 Tapped hole
Web between trigger guard and slot milled out with 5/32"x1" Woodruff Keyseat Cutter
5/32" Dowel hole

By carefully fitting and finishing the new trigger and sear mechanism and making a better-fitting striker, I was able to obtain a much crisper and more uniform trigger pull.

The grips and pump handle were made from a nice piece of American walnut, after making one or two trial patterns in pine to get the right shape. A little amateur checkering helped to finish off the job.

The completed gun hangs nicely and is a great source of satisfaction and pleasure to both of us. It shoots more accurately than we can hold. Targets were printed by a friend and are designed for a twenty-foot basement range. The ten-ring is (approximately) three-eighths of an inch in diameter, the nine-ring three-quarters of an inch, the eight-ring one and one-eighth inches, and so on. Our scores average in the eighties, with an occasional one in the nineties.

The obvious advantages of this kind of practice are: Extreme economy, quietness, and the ability to use it for real beneficial practice right at home. ♦ ♦ ♦

Turkey Rifle

(*Continued from page 7*)

how to place them with the heavy 3,100 f.s. load.

After picking up the gobbler, I returned to the blind with the hope of securing a young one and of enjoying the thrill of calling up the drove. I once scattered a drove of five old gobblers and, hours later, called up every one of them. That experience gave me a thrill I have never forgotten, even though I did not fire a shot, and I hoped to repeat it here today.

Things looked very hopeful for a time. After I had lain in the blind for more than another hour, suddenly the jungle came to life. In all my days, I have never heard such a chorus of turkey calls. Sure enough, the drove was going to assemble right before me! . . . But, in a twinkling, all was changed. It had been partly cloudy all day; but, now, dark, thick clouds loomed suddenly on the horizon and rain came swiftly, in sufficient force to drive both me and the turkeys to cover. I grabbed my rifle and turkey and struck out for the lodge.

I had an opportunity that day such as had never come to me before; such as probably will never come to me again—only to have it spoiled by rain! Well, a few drops of water falling on the night before Waterloo sufficed for the overthrow of a world; so perhaps I should not complain.

I have killed nine wild turkeys, with this outfit so far, and I could ask for nothing better for such game. The standard Hornet rifle with factory cartridges is ideal for turkeys at ranges up to 150 yards, but the K-Hornet will shoot all Hornet cartridges with equal accuracy and, in addition, with its own heavy loads, will reach out and attain results at long range that no Hornet can ever equal. Other men, other notions; but, for me, this is the ideal rifle for turkeys. ♦ ♦ ♦

No time in the history of the game was ever more ideally favorable to the expansion and promotion of shooting as a sport than NOW.

Here are a few common-sense tips to help you take advantage of today's opportunity to make shooting a major sport in your own community.

Club Promotion

By EDMUND McLAURIN

THE ORGANIZATION AND PROMOTION of an active, progressive rifle and pistol club is a big job, but it is a job that pays high dividends in fun and in fine friendships—and in the personal satisfaction that comes of having a hand in the promotion of a sport that is also a national asset in our country's time of need. World War II proved that—and, at the same time, brought public interest in shooting as a sport to a new high. Rifle and pistol clubs are being formed all over the country, and this article is written in the hope that a few high lights from my own experience as a promoter and club secretary will help pave the way for more successful club promotion in other sections.

First, elect your club's officers on the basis of their ability to promote and advance the general welfare of the club—not on friendship alone. An older man, actively interested in the club and prominent in the community, is your logical choice for president. Don't be narrow-minded and refuse to nominate or vote for a man simply because he once would not let you use his favorite rifle, or because he does not share your exact opinions on shooting matters.

Enroll your club in the National Rifle Association. NRA membership not only gives a club prestige, but it provides aids to successful rifle club promotion and individual enjoyment of the sport.

If convenient to do so under the laws of your state, it is a good idea to incorporate a club. Not only is this a wise step from a legal standpoint in case of a possible damage suit against the club, but it tends to center attention on the fact that the club is being operated in a businesslike manner.

The NRA charter is too attractive and too expressive of dignity and power to be rolled up and put away in some bureau drawer. If the club charter cannot be displayed at the regular place of meeting, have it neatly framed and hang it in the lobby of your Y. M. C. A. or in the Chamber of Commerce office, where it can be a silent missionary for your club.

Complimentary memberships to your local newspaper editor, Chief of Police, Sheriff, hardware dealers, and others in key positions, are wise investments if not overdone. Don't carry this so far that the club will be burdened by its own generosity, but bear in mind the psychological fact that a complimentary membership, whether used or not, may bear fruit in the form of friendly co-operation later. (It is surprising, too, how many of these men will take out regular memberships or make substantial donations to further the development of the club.)

Don't make the mistake of electing the same men to office year after year. A two-year term is usually long enough to keep any one man in an official capacity. Every man has his own ideas on shooting matters and his own way of doing things. A club that keeps the same group of men in office year after year limits itself to one set of ideas and methods. It is better to inject a little new blood into the organization every year or so.

Club officers, and especially the club secretary, should take personal interest in the newcomer to the range. Talk about *his* gun—*his* shooting! Make him feel recognized and accepted. Above all, let him compete against men of his own average ability, once his classification is known. Help the newcomer with his shooting problems. Perhaps his sling is a notch too loose or too tight, or his trigger squeeze may be sloppy. You can call these things to his attention in a friendly, helpful manner, without making him feel like a dub. Offer him the benefit of your own experience and that of your instructors, plus the experience of shooters, generally in the form of NRA manuals and handbooks and books on shooting by recognized authorities.

(Incidentally, a club library of technical books on shooting can be very helpful. Many of the technical books on shooting are rather expensive, but a club-owned library can make them available to all at nominal individual cost. Many shooters who normally would never have access to good technical books would thus glean valuable information from their perusal. The rental fees on loaned books should be fairly high, for reasons of maintenance, and the club librarian should keep behind the borrowers to see that they return the books promptly and not pass a book on to another club member who desires to read it.)

Install a club bulletin board at the range, and post the names of the members of the club. Keep the roster up-to-date so that all club members are informed of new arrivals. An attendance record, prominently posted, can also be of value. A regular attendant will make it a point to ask an habitual absentee to come out to the range. By this means, a nonactive member, who has let other activities sidetrack his shooting, can often be brought back to the fold. When I was a club secretary, I made it a point to contact personally the absent member and let him know that we missed him. This personal-interest factor will pay big dividends in increased attendance and club advancement.

Display charts showing the correct sight pictures for the various types of sights. The constant presence of the correct sight picture is a psychological aid to good scores. Instruction charts on rifle shooting can be had from NRA.

Make friends with the salesmen in the hardware and sporting goods stores. These men can, and will, tip you off about purchases of equipment. If a man is buying a good rifle, it is logical to assume that he is interested in shooting it. Look him up. Invite him to the club range. Issue him a courtesy card, entitling him to attend, use the range facilities, and purchase a box of ammunition for, say, three regular firing sessions. If he proves to be the type of man your club desires, you'll probably have gained a member.

Be sure to acquaint both your prospective members and your local sporting goods dealers with that excellent booklet, "The Small Bore Rifle Handbook," by Col. Townsend Whelen, distributed without charge by the various firearm and ammunition companies who jointly sponsor its publication. This profusely

illustrated booklet, without advertising, gives the low-down on essential shooting equipment, listing many popular models of .22 caliber rifles by classes and further explaining, by class comparison, the virtues and disadvantages of each as regards competitive shooting. The correct shooting positions are covered in detail and there is a chapter explaining sight adjustment, with illustrations of the correct sight pictures for the various types of front sights commonly found on .22 caliber rifles. Your hardware and sporting goods dealers will find it very advantageous to obtain a supply of these handbooks and make them available to their customers, especially with the purchase of a rifle.

(I make it a practice, also, to list the names and addresses of interested persons and periodically forward them to one of the ammunition companies with the request that a copy of the handbook be mailed direct to each person. When your prospect receives "The Small Bore Rifle Handbook," he is going to give it private study, and the more knowledge he picks up at the start, the less likely he is to get started off on the wrong foot, to the detriment of his enthusiasm and his pocketbook!)

There are three promotional aids that I try to keep on hand at all times: A copy of "The Small Bore Rifle Handbook" already mentioned; a copy of "From Tyro to Master," by Major R. C. Andrews; and a copy of THE AMERICAN RIFLEMAN. Whenever a conversation with a prospective marksman discloses the need of immediate information, I pass along these three volumes for reading. On each is pasted the following statement: "This publication is gladly loaned you without obligation to help you get started in the shooting game. Just remember that on its prompt return may depend the pleasure of another like yourself." Very few publications so marked have failed to find their way back to me.

Window displays are effective interest-creating mediums, and are usually easy to work up from locally available material.

Since the idea of the display is to call the public's attention to your club and to the organized shooting activities available within your community, plan to do a good job or don't tackle it at all. The club will be judged by the finished product as offered to the public. Making it attractive will cause the passer-by to stop and look. Making it interesting in content will cause him to *think seriously* about the club and the sport which the display represents.

First, visit four or five prominent stores on your main street; firms that command respect and attention from the community. Study the physical features of each of the display windows. Will your display be easily seen from the street as one approaches the location? Is the window suited to the size of your planned display, or is it so large that you will be forced to share it with other merchandise? Is it well lighted at all times? Next, approach the proprietor of the store window of your choice and explain your planned display. If you convince him that you're going to do a good job and that the display will be to *his* advantage, too, in the attention it will receive, you're likely to get permission to use the window. Let him set the date, and make any suggestions he may care to advance. Most stores change their displays at weekly or semiweekly intervals, and the store owner may not wish to disturb a regular display until the scheduled date for changing.

In a public window display you will, of course, want to feature the equipment which you and your fellow members use in the enjoyment of your favorite sport. On its arrangement will depend much of the effectiveness of your display.

One of the window displays which I worked up used material which can be found in almost any club: A Winchester 52; a shooting kit; a spotting scope and stand; a cartridge block; ammunition; a shooting glove, coat, and mat; a Colt Officer's Model .22; targets of various sizes; copies of THE RIFLEMAN; NRA literature; medals and shooting awards; a club membership card; charts showing correct sight pictures and shooting positions; a copy of "The Small Bore Rifle Handbook;" a collection of miscellaneous cartridges of various calibers; cleaning rods, and other similar items.

"And you was prayin' for peace! I knew that war was too good to last!"

For a dollar, a local sign painter made a two-foot by three-foot cardboard sign, in three colors, featuring the name of the club and a tri-colored bull's-eye. This, together with some contrasting crepe paper and a few cardboard ammunition advertisements, which a letter to each of several ammunition manufacturers had brought posthaste, I used as the background for the display.

I mounted a Winchester 52 on a stand, complete with target sights, sling, and a trigger gadget. Directly beneath and slightly in front of the 52, I set up the spotting scope on its own stand, an opened and partially filled cartridge block, a shooting glove, and a scorebook. The shooting coat, gaudily decorated with its emblems, I arranged on a second stand, to the left of the rifle, and then set up the Colt Officer's Model on a smaller pedestal of its own. Over the floor of the window, I arranged the other material, putting the smaller items closer to the edge of the window and the larger, more easily seen articles farther back.

The exact arrangement matters not, but related material should be grouped for effectiveness and orderly arrangement. All major items should be properly identified by labeled cards, the lettering large enough to be read easily from the street. Add a line explaining the purpose of each item. The miscellaneous items (cartridge boxes, scored targets, copies of THE RIFLEMAN) can be used to advantage throughout the display. I used

two copies of THE RIFLEMAN,—one closed, showing the cover, and a second, opened to an article of general interest.

Once you get the window display set up, go out on the street and study it for possible flaws. Then, when you have it as perfect as you think it can be arranged, call the store proprietor and ask him to criticize it. He may, because of his professional experience, have some beneficial suggestions.

Such a display, if well done, will attract a great deal of favorable attention to your club and its facilities, and to shooting as a worth-while, available sport.

Newspaper articles, short and well-written, for the Sunday morning paper are exceptionally fine promotional mediums. These can be news stories of local and state shooting activities, or even articles of a technical nature if the person handling this publicity is also something of an authority on shooting matters and can coax the sports editor to grant him columnist privileges. Beware of unproved technical points if you elect to write a weekly column. Stick to fundamentals, or get the NRA to pass on your technical statements before you print them.

If a projector of the proper size is available, movies on shooting subjects are obtainable from the NRA, the "Field & Stream" rental library of motion pictures, and possibly from one or two ammunition companies, and are usually well received. These films can be shown privately by the club, or jointly sponsored by the club and some local dealer in guns and ammunition, whose store facilities will accommodate a gathering of the clan.

In the latter case, it is well to attempt to control the size of the assembly by having admission by invitation, the club and the co-operating merchant mailing cards to selected lists of local sportsmen, inviting them to see the movies, examine guns and equipment without obligation to buy, talk guns and shooting, and otherwise enjoy themselves on a certain night at a certain time and place.

On the Big Night, following welcoming remarks by the Master of Ceremonies, the showing of the movies can be supplemented by a demonstration of the correct prone, sitting, and standing positions by two club members, one member demonstrating the positions and the other acting as narrator. This instruction should be given before the movies are shown, and the assembled guests urged to compare the various fundamental features of the demonstrated positions with those depicted in the instructional movies to follow. This encourages close attention to the technical points embodied in the shooting activities to be shown later on the improvised screen.

It's a good idea, if the expenses can be met, to provide refreshments in the form of sandwiches, pickles, and soft drinks—without charge, of course—at all such gatherings. Entertainment and refreshments, plus a hearty welcome on behalf of your club, will leave a good taste, literally and figuratively, and may well prove to be a good investment in terms of new members.

Holidays offer excellent opportunities for staging competitive shoots, both as promotional ventures and as money-making propositions for a club. Turkey shoots are always popular when well-planned and properly managed.

If the shoot is to be strictly a club affair, on the basis of skill, make the entry fee high enough so that the revenue will permit the awarding of prizes for the various classes. Give the average shots a chance to win, too. You can't expect these men to feed the kitty for the sole benefit of the recognized club experts!

Public shoots are entirely different propositions. Their successful promotion calls for detailed advance planning of the various phases, and co-operation on the part of all. A club cannot merely announce a public shoot, and then on the appointed day run it in an impromptu manner with any expectations of its being a success. For a designated entrance fee, you are making the club facilities open to the public. This usually means that the club will have to furnish the necessary arms and ammunition. It will certainly be responsible for the safety of the participants and spectators. Many of the former are likely to be firing a gun for the first time. All factors relating to such a shoot must be considered and prepared for in advance, and complete arrangements made to insure the safe and systematic operation of all details. Unless you've had experience with such a project, better get advice from the NRA or some individual who has that experience. A well-run, successful match can do your club a world of good. A bad one might do it irreparable damage.

The opportunity to advance the interests of the shooting game through an active junior program should not be overlooked. The usual procedure, once a junior program has been approved by a club, is to announce the sponsorship of a junior club, provide a few guns and a supply of ammunition, and then sit back and wait for the boys to come forward—which they will do since almost every boy, at one time or another, is interested in guns. But to sponsor a junior program and then sit back and wait for the memberships to come in is merely to scratch the surface. True, only the more enthusiastic of the boys will seek you out, thereby assuring you of dependable material; but for every boy who actually fires under the club banner there will be a dozen whose safety and gun interest would benefit from personal contact with men who are qualified to instruct in rifle marksmanship.

Why not a city-wide marksmanship educational program for boys, to teach large numbers of boys the proper and safe handling of small-bore rifles and show them how they may win medals and other shooting awards? Present the program through personal visits to schools, Boy Scout Troops, Y. M. C. A. groups, and other civic bodies. Arrange carefully rehearsed programs consisting of demonstrations of the correct shooting positions, explanations of various types of rifles, sights, and shooting equipment, a demonstration and use of the aiming bar and of the correct use of the gun sling and its advantages, a brief explanation of the dangers of random shooting with .22 caliber rifles, a review of the NRA's competitive program and a statement concerning your own club facilities and program, coupled with a cordial invitation to the boys to share those facilities and that program. The results may amaze you! ● ● ●

RUST REMOVAL

The removal of rust and pits from small, irregularly shaped parts which have been so heavily attacked as to render wire brushing ineffective can easily be accomplished by the following method:

Cut a disc of emery cloth or paper of the desired grade to the same diameter as an available cloth buffing wheel. Punch a hole in the center to suit the arbor. Mount the disc against the buffer. (Gluing a layer of heavy paper or cloth to the back of the emery will prolong the life of the discs.)

In use, the work is pushed against the emery disc so that it will bend over the buffer.

Wooden and plastic objects also can be sanded and polished in this manner. This scheme is far quicker and simpler than attempting to charge a buffing wheel with coarse grit.

This is the Rowland Pope, complete with its Schuetzen-type stock and palm rest, and the accessories that go with it. Immediately below the barrel and to the left are two bullet moulds. Below them is a breech seater, for seating a bullet to the proper depth from the breech so that a metallic cartridge containing the powder charge will exactly fit behind it. Third in line with the bullet moulds is a decapper; and directly below it is the false muzzle, for muzzle loading. The prongs on the false muzzle fit into holes in the real muzzle. They will fit in only one position, so that rifling in the false muzzle will exactly coincide with the rifling in the barrel. So fitted, the false muzzle acts as an extension of the barrel into which bullets can be seated without danger of injury to the barrel itself. Just to the right of the false muzzle is the bullet seater for muzzle loading. Furthest right is a bullet lubricator and sizer; and below it is a bullet and a metallic cartridge used when rifle is loaded from the breech.

THE ROWLAND POPE

By WALKER GREER

Last month I saw for the first time the famous "Rowland Pope"—legendary among riflemen as the most accurate rifle ever made.

Twenty years ago, when Dr. C. W. Rowland first wrote me about the amazing results of his bench-rest accuracy tests with the rifle, using lead-alloy bullets, I was frankly skeptical. Ten-shot 200-yard groups with all bullets going into one ragged hole seemed too good to be true. But they were true, and I determined to see this rifle that had established a new criterion for rifle accuracy.

But when I finally reached Boulder, Colorado—Doctor Rowland's home town at the foot of the Rockies—the good Doctor was dead and his rifles scattered. It was not until the summer of 1945 that I caught up with the Rowland Pope now owned by Mr. Walker Greer. Actually to hold the rifle in my hands after all those years gave me a thrill I shall not soon forget.

The Rowland Pope is a well-preserved, fourteen-pound Union Hill Ballard, presumably the No. 7, with Schuetzen butt and palm rest. The long, thick, round barrel was made by Harry Pope and was later turned down to lighten its weight by four pounds. This, unfortunately, removed Pope's distinguishing marks, usually placed under the forestock. Rowland's subsequent groups proved that turning down the barrel had no effect upon its ability to make small groups at 200 yards when loaded from the muzzle. It gave its usual superb performance, too, when fired with electric ignition mechanism from the Mann rest at Springfield Armory. Later, Mr. Sizer proved that it would shoot as well with a three-diameter, 198-grain bullet loaded into the breech with Doctor Rowland's bullet seater. There is a round knob on the left side of the receiver which served as an anchor for this Pope seater. There was also a plain buttstock with an adjustable screw-controlled bottom rest for bench-rest shooting.

King of Mr. Greer's fine collection of single shots, the Rowland Pope survives, complete with all its accessories, including the plain stock (with adjustable screw-controlled bottom rest) for bench-rest shooting. Mr. Greer is not a target shooter, and he has kept the rifle and all its accessories in greased condition, without shooting it once. He feels that it has already been adequately tested by Pope, Rowland, Springfield, Winchester, and Sizer. He thinks it should be purchased by someone who can afford to donate it to a museum for the sake of posterity. And so do I.—F. C. Ness.

NEXT TO MY FAMILY, I LOVE GUNS. But it was not until some thirty years ago that I had the means to own or the time to use them to any extent. It was then that I became a member of the NRA, and through it formed some of my most cherished friendships with men of similar interests.

One of these—the late Mr. A. Sizer, of Clarksburg, West Virginia—was an ardent Schuetzen rifleman. He had been to many of the *Schuetzenfests* of that bygone day and knew many of the old-timers; among them, A. O. Niedner, Arthur Hubalek, and many others.

On one of my trips to see him, Sizer set me crazy over a certain famous gun: The original Rowland Pope Ballard—called, with good reason, the most accurate rifle ever made. Sizer had been out to Boulder, Colorado, to visit Dr. C. W. Rowland and had brought this famous Pope Ballard Schuetzen rifle back with him. Doctor Rowland's eyesight (or his health) had begun to fail, and he had offered his guns for sale. It was that offer which had taken Sizer to see him.

(In the March, 1930, RIFLEMAN, I had an article concerning Mr. Sizer and his guns. Two of his 100-yard targets were shown. In the September, 1936, RIFLEMAN, an article by H. A. Donaldson included one of Doctor Rowland's targets. In the May, 1945, issue of the magazine, "True," Doctor Rowland is prominently mentioned and one of this gun's targets is shown. Time and time again, this gun, its targets, and its performance have been played up in print. Evidently, no gun capable of being fired from the shoulder has ever equalled its performance. Doctor Rowland, as well as Mr. Sizer, knew its every whim and both must have been above the average as riflemen.)

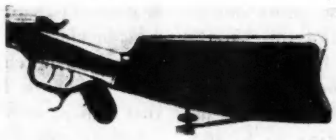
Right away, I, too, wanted a Pope Ballard; but, of course, the Rowland gun was not for sale for love nor money. However, Mr. Sizer, lent me every assistance. He procured for me a fine engraved Ballard action like his, with a beautiful rosewood stock. Then, on one of my trips into New York, I located an unmounted and unfired Pope barrel in Arthur Hubalek's

place. Combining these finds, I finished up with a duplicate of the Rowland gun, as nearly perfect as could be.

Since then, I have acquired a goodly collection of the old Schuetzen rifles, including the full series of fine Stevens Popes in all calibers. I kept up my search until I acquired eighteen types and calibers, some Winchesters but mostly Stevens, which I now have. Included in the lot is a fine Schoyen Ballard, a Rigby Ballard, and others. One that I wanted badly but never got was a Zischang.

But to get back to the Rowland Pope Ballard: When Doctor Rowland commissioned Harry Pope to build this gun, he gave like specifications to George Schoyen, in Denver. The specifications were alike in every detail—gun, attachments, weight (both were to weigh eighteen pounds), measurements, and all. The idea was to see which man could make the more accurate barrel. Apparently, the decision went to Pope, for it was his barrel with which Doctor Rowland's still-standing records were made.

When Rowland sold his guns, the Schoyen went to a man in California. Mr. Sizer kept in touch with this gentleman, and after his death he bought the Schoyen from his widow and brought it to Clarksburg, where it remained with Mr. Sizer until his death. I had always wanted the Pope and, as he would not sell it during his lifetime, we made a gentleman's agreement that if I outlived him I was to have it at his passing. The family lived up to that agreement, and I obtained the Pope from his estate. I didn't want the Schoyen, so it was sold to another person.



For bench-rest shooting, this stock replaces the Schuetzen stock. Note attachment on stock for contact with the bench.

In their original make-up, each rifle was fitted with a 20X scope. The Pope had a Malcolm scope, the Schoyen, a Stevens. Each was the old, tiny-barreled, full-length scope of their day. I didn't care for either of these old scopes, so I allowed them to be sold. Doctor Rowland and Mr. Sizer did their remarkable shooting with these old scopes, but I am sure each would have preferred one of our new modern scopes had they been available at the time.

Doctor Rowland found that an eighteen-pound gun was a bit heavy for offhand shooting, so he wrote and asked Harry Pope if it would affect the accuracy of this gun if he turned the barrel down, thus reducing its weight. Harry told him it would not affect this barrel, so Rowland took the gun to Denver and had Schoyen turn it down, reducing the weight to fourteen pounds. That is its weight today.

During Doctor Rowland's use of this gun, I am of the opinion he loaded it altogether from the muzzle, using the false muzzle and the starter. Mr. Sizer, in his later days, loaded it altogether from the rear, using the handled bullet seater which loops over the knob on the receiver, thus shoving the bullet home at exactly shell length. The two molds both cast a three-diameter bullet, filling the bore, the grooves, and the rear of the throat and making a perfect gas seal. Mr. Sizer used the old Schuetzen smokeless powder altogether. I now have several pounds of it with the gun.

I have all the attachments either of them had. Included in the photographs is everything but the wooden ramrod for seating from the muzzle, the powder measure, and the rest stock which Mr. Sizer made and used, since he did his shooting mostly from a table rest. I have taken the best care of all, and everything is as perfect as can be.

A ten-shot group from bench rest at 200 yards. Such groups, repeated many times, earned for this rifle the undisputed "all-time" title for lead bullet accuracy.

A friend told me of an amusing incident that took place in Denver shortly after Doctor Rowland had acquired this gun. A gentleman was telling the crowd about him; how the Doctor could place all bullets in one ragged hole at 200 yards, and keep on doing it. An argument ensued, and one of the doubters bet $100 that it couldn't be done.

The result was that the two principals made a trip to Boulder to call on the Doctor. Doctor Rowland obligingly shot several groups for them, placing all his shots into one hole at 200 yards. The doubter paid off. He was a doubter no longer; he had seen the miracle with this own eyes!

Mr. Sizer told me of another amusing incident during his own days with this gun. A certain gentleman had bought one of the heavy Type T Springfields and with it had cleaned up all the matches around Pittsburgh and in the Ohio Valley, the vicinity in which he lived and traveled. He had won hams, chickens, turkeys, money, and what-have-you. He had just about put an end to such matches around his section; if he entered no one wanted to shoot against him. Some one told this man about Sizer and the Pope, so he made a trip to Clarksburg to see Sizer and learn more about it. He challenged Mr. Sizer, right on the spot, to shoot with him. As accurately as memory serves me, here is the conversation when they got ready to shoot:

Visitor to Mr. Sizer, "How much are we going to shoot for?"

Mr. Sizer, "Any amount you want to risk."

Visitor, "How about ten dollars?"

Mr. Sizer, "Suits me."

Visitor, "Let's make it twenty."

Mr. Sizer, "Suits me."

Visitor, "If that is the way you feel about it, let's make it fifty."

Mr. Sizer, "Suits me."

At this juncture the visitor pulled out his purse and began to get out his money.

Mr. Sizer, "Put away your money and go on and shoot."

Visitor, "Damn it, if you win it, it is yours!"

Mr. Sizer, "Go on and shoot. I am not going to take your money away from you."

Well, the visitor fired his ten shots, and Mr. Sizer fired his. The visitor had asked that they shoot at 150 yards, so Mr. Sizer had adjusted his telescope for that range. After each had fired his string, the targets were brought in. The visitor had fired an excellent group, but Sizer's ten shots were all in one tiny hole scarcely larger than the bullet diameter. That took the pride out of the visitor. He said he thought he had a gun, but he had nothing like that Pope! Mr. Sizer told him that no gun with fixed

ammunition had ever been made that would match the old-timers for accuracy, and this had merely proved it.

When Hitler, Hirohito and Company decided to stir things up, I wanted to do what I could to help confound them, so I came to Newport News and offered my services here at the shipyard, where I am during the emergency. I have long belonged to a club here, since I have long made it a practice to come here to hunt. Among our club members is an old retired Army Major, one of the most scientific men I ever knew and a veritable encyclopedia on guns. He knew this old Rowland Pope, and he has told me much about it.

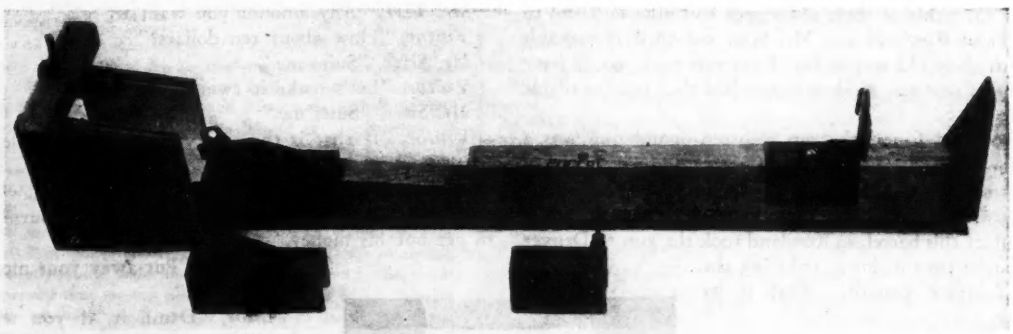
During this Major's day at the Springfield Arsenal, they had Doctor Rowland send them this gun for scientific study, to see what made it perform as it does, with an idea of adapting such methods to the manufacture of Springfield barrels. They removed the barrel from its action, fitted it to an electric firing mechanism, and mounted it in a Mann rest. So mounted, he says they could place all bullets in one ragged hole, shooting all day long at 200 yards, if they so desired. He says they photographed, measured, gauged, and made every record of it, hoping they could discover why it performed so consistently. He tells me, too, that Pope, while he was making this barrel, made a slip that he thought would spoil it. In fact, Pope was so sure that the barrel was ruined that he grabbed a hack saw and started to saw it in half. On second thought, however, he decided to go on and finish it up; and, on testing it, lo and behold, he had made a barrel the like of which he had never made before. I am told that Pope has tried all his life to make the equal of this barrel, and (although Pope barrels generally are famous the world over) none has ever equalled this one.

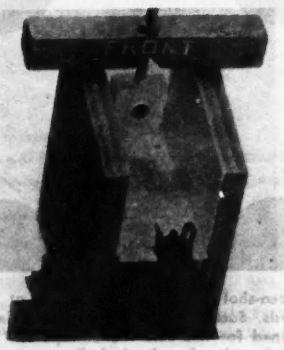
I regret I never was able to meet Doctor Rowland. I had planned to visit him, to get, firsthand, all he would tell me about the gun. I delayed too long; but, since then, I have garnered every bit of information I could concerning it, from reliable sources. I have never once fired the rifle, nor do I ever intend to now. Major Smithley tells me Winchester and Stevens both have had it at their plants for study; and after the superior performances of Doctor Rowland and Mr. Sizer and after the tests made with it at Springfield Arsenal, I am not foolish enough to think that I could ever begin to equal what has already been done. In fact, I have begun to wonder here of late whether the old masterpiece really belongs to me or not. At times, I feel it ought to be the property of posterity, in the hands of someone who could and would carry on with its use and study.

No living craftsman has ever made a violin like the fine old Stradivarius, or the Cremona, and never will again. No one of future generations, I am sure, will ever make rifle barrels like the ones made by old artists now gone, such as Billinghurst, Walker, Zischang, and Pope. With the passing of Harry Pope, we can close the book. And, of them all, this Rowland Pope Ballard is the champion. It is Harry Pope's masterpiece, and with it Doctor Rowland and Mr. Sizer made shooting history that will be retold as long as guns are used. And there it sits, carefully coated in protective grease—a champion of champions—unused, but loved—able, I think, even today, to do the deeds that made its fame.

My gun—or history's? I don't quite know! • • •

AN IMPROVED, PORTABLE SIGHTING BAR - - - - By ROBERT R. SANDERS





Introducing another excellent refinement on an old theme—the Sanders Combination Rifle and Pistol Sighting Bar, designed and developed by Robert R. Sanders, of the Sea Bees.

The bar pictured is equipped for sighting exercises preliminary to firing the pistol or M1 carbine. Carbine sights are illustrated in position, and Patridge-type pistol sights are shown separately beside the bar. Note that these sights, especially the front sights, are identical with those on the actual weapons, not crude representations as on the conventional bar. The user of this bar feels that he is actually using real sights.

Construction of the bar, aside from the sights themselves, is extremely simple. Although the rear sight is bolted into position on the bar it is constructed to allow side-to-side movement of the aperture or notch, giving windage adjustment. Elevation is controlled by movement of the front sight which slides on an inclined plane. Sight pictures, correct or incorrect, are demonstrated by the suspended target which, by movement of the crossbar, can be placed in any desired relative position to the already-aligned sights.

Advantages of the Sanders bar over one of the conventional type include, first, its convenient and compact size (25¼ inches in length). Because of its small size, the user can look through the eyepiece while adjusting either sight or the target—an impossible trick with the older five-foot models. For the same reason, those adjustments are more accurate and are made much more quickly. The accurate replicas of actual sights make the exercises realistic. Add to these advantages the fact that the bar may be used for either rifle or pistol instruction and the advantages of this bar over older types are readily apparent.

Souvenir Firearms of World War II

By W. H. B. SMITH

ONE OF OUR OWN

RECENT NEWSPAPER PUBLICITY, plus the influx of many of the actual weapons themselves as "souvenirs" in the hands of returning GI's, seem to have broken the veil of secrecy that has existed for so long regarding the cheap, single-shot, .45 caliber pistol pictured here, at right. This weapon was made for our Office of Strategic Services and was distributed by them to the various "underground" movements. The idea was that a man so armed could, at close range, kill an enemy soldier or agent, and, possibly, obtain from him his weapons for use in further fighting.

American-made single-shot .45 caliber pistol distributed to various "underground" factions.

The picture tells the story pretty graphically. The pistol is all metal and suitably welded. Overall length is five and one-half inches. The barrel is four inches long and is smooth bored. As originally shipped, the pistol was packaged with a really well worked out instruction sheet, printed with a series of crude but graphic line drawings showing, step-by-step, how to load, fire, and extract. No word description is used or needed, so the instructions could be understood regardless of language. Also enclosed in the cardboard box were twelve .45 ACP cartridges and a stick for punching the empty shell out after firing.

The pistol is held in one hand and the striker knob pulled back with the other, thereby compressing the mainspring. When the striker is fully back, it may be turned right or left to remove it from the path of the chamber. A thin spring-steel sliding piece which serves as the breechblock to support the head of the cartridge case may now be drawn up to expose the chamber. A .45 Auto cartridge is inserted, its case mouth resting on a shoulder in the chamber in standard .45 Auto fashion. The sliding breech piece is then pushed down into position behind the head of the cartridge, and the striker assembly is turned up into vertical firing position. When the trigger is pressed, the striker is driven forward. A second pin, mounted just above the striker pin, passes through an upper hole in the same breech piece to prevent the breech piece from rising.

At ten or fifteen feet the smack of the key-holing bullet tears an unbelievable hole in anything it is capable of penetrating. The accuracy drops off rapidly beyond about twenty feet, quite naturally.

The pistol is unloaded by drawing back and turning the striker unit, pulling up the sliding breech piece and pushing the wooden extractor rod down the muzzle.

The butt plate is tongued into the bottom of the handle and is sprung into place. Sliding it out exposes a hollow in the handle large enough to carry ten or twelve extra cartridges.

If you have one of these pistols, hang it on the wall as a nice memento. And, if the urge ever should strike you to fire it, remember this: The .45 ACP cartridge develops a maximum breech pressure of 14,000 pounds per square inch. With that figure in mind, examine the pistol. Taking chances is a part of the game, in war; but the war is over!

JAPANESE REVOLVERS AND PISTOLS

Revolvers: The only revolver of Japanese manufacture extensively used by the Jap forces was the Model 26, adopted in 1893 as a cavalry sidearm. This revolver is often mistakenly referred to as a Japanese copy of the Smith & Wesson. While it utilizes the method of hinge-frame operation and the barrel lock on the barrel extension as originally introduced by S&W, the lockwork is modified from the types developed by Gasser, in Austria, in the 1880's and is readily accessible for cleaning and repairs. As in the case of the Gasser types, the left side plate is hinged at the rear and extends forward below the cylinder to cover the trigger mechanism. Pulling the rear of the trigger guard down to spring it out of its seat frees the side plate. When the side plate is swung back on its hinge, the trigger may be lifted off its mounting boss, the stocks may be removed, and all the lockwork thereby exposed for cleaning. Lifting up the barrel catch permits the barrel to be broken downward on its hinge. If the barrel catch is lifted and the cylinder unscrewed, the cylinder and extractor assembly may be removed.

The revolver weighs about thirty-six ounces. It has a barrel length of about 4.7 inches, an over-all length of eight and a half inches, and a cylinder capacity of six cartridges. Sights

The Japanese Model 26 (1893) Revolver. This is a double-action revolver only; that is, it cannot be thumb-cocked for single-action fire. The trigger pull is bad and cylinder alignment is uncertain. Picture below shows the hinged side plate open to show lockwork, which is based on Austrian design.

are the customary pinned-in blade front and open-notch rear. Opening the pistol automatically ejects the contents of all chambers simultaneously in standard fashion. The lockwork is strictly double action. There is no full cocking bent on the hammer, hence it cannot be thumb-cocked for more accurate shooting. Pulling the trigger through will revolve the cylinder, raise and drop the hammer. The pull is usually very hard, and both tolerances and indexing are very poor. In fact, the cylinder alignment is so poor that I have never seen one of these pistols which did not throw lead. It is unwise to stand on a shooting line with anyone firing one of these revolvers, as the lead particles shaved from the bullet as it jumps the gap from cylinder to barrel can result in serious eye injury.

The caliber is 9 mm. Special and is not adapted to any American arm. The cartridge case is of brass and has a very thin (.023 inch) rim. The base is flat, without cannelure, and has a slight taper to facilitate extraction. Head diameter is .387 inch, neck diameter is .375 inch, rim diameter is .432 inch, and length is .859 inch. The bullet is lead with a round nose. Primer is brass. Over-all length of cartridge is 1.183 inch. There are no markings on the head of the cartridge case as regularly encountered.

As already pointed out in a previous article in these columns, Japanese armament design has long been influenced by Italian thought and experience. This revolver is no exception. The arm itself in its lockwork indicates the Austrian influence of the 1880's as encountered in Northern Italy, while the cartridge design patterns very much along the lines of those found even today in Italian revolver ammunition.

The Japanese characters on the right side plate of the Model 26 revolver mean merely "26th year Model."

Automatic Pistols: The Japanese used three types of pistols of their own design. The first was the Nambu. The second, the Model 14, appeared with two types of trigger guards and with other minor differences such as secondary magazine locks, but both are essentially the same pistol. Both follow the general construction and lock design of the Nambu, but they are unlike it in many details. The third, the Model 94, is an entirely different weapon, having practically nothing in common with the other types except caliber.

The Japanese on the Asiatic Continent used quantities of Mauser and Luger pistols captured from the Chinese, but there is no need to deal here with those arms. As a matter of passing interest, it might be noted that when Premier Tojo attempted suicide it was with a .32 Colt Automatic!

The Japanese Nambu (above), pre-war Jap Service pistol, was well made of good materials, on a simple, sound, recoil-operated design. The Japanese Model 14 (*right*) is a modification of the Nambu, better adapted to quantity production. Note absence of Nambu grip safety.

All the Japanese pistols listed use the same ammunition—an 8 mm. cartridge closely resembling the 7.65 mm. Luger in appearance but NOT interchangeable with the German cartridge. The cartridge case is brass, has a semirim and is bottle-necked. It is stab-crimped to the bullet. The case measures .413 of an inch in diameter at the head, .408 of an inch in diameter at the rear, and .388 of an inch in diameter at the neck, while the mouth diameter is .338 of an inch. Case length is .86 of an inch. Primer is brass. Head of case is unmarked. The bullet is full metal jacketed (not lead as often erroneously reported) and weighs 102 grains. Powder charge of approximately four grains develops a muzzle velocity in the neighborhood of 950 feet per second. Over-all length of the cartridge is 1.26 inches.

The Nambu Pistol: This was the first Japanese semiautomatic pistol. It appeared about 1914 and derived its name from the designer, Colonel (later General) Kijiro Nambu, an outstanding small arms designer. This pistol is usually listed as being derived from the German Luger, but except for superficial details and appearance it has nothing in common with that arm.

Colonel Nambu was influenced in designing this arm by the 1910 Italian Glisenti (which in its turn was influenced by the Mauser pistol). In design and construction, however, the original Nambu is simpler, safer, and sturdier in every way than the Glisenti. It suffers solely from the point of caliber, as its cartridge is far from being a satisfactory military one.

From the standpoint of number of parts, simplicity, ease of takedown, ease of manufacture, and security of lock, it would be difficult to find a better design than the Jap Nambu.

WARNING! One warning is necessary about this pistol and about the Model 14. As in the case of the Walther P-38, it is possible to reassemble these pistols after dismounting without the locking block being inserted. If the Walther or the Nambu contains its locking block, no safer pistol is made. If the block is not replaced, you have an unlocked blowback which will function for the first shot but which may be jammed open and ruined. While there is little danger of injury *to the shooter* from firing the comparatively low-powered Nambu without its lock, there is definite danger of injury *to the pistol*.

The Nambu is a short-recoil-operated pistol in which the barrel and breechblock units recoil securely locked together for a short distance during the period of high breech pressure. The lock is a swinging steel block mounted in the receiver behind the top of the magazine well. When the pistol is ready for firing, the nose of the locking block is riding up through a cut in the underside of the barrel extension and is securely engaged in a notch on the underside of the breechblock. At the end of the barrel recoil stroke, the locking block has been carried back far enough to permit its lower face to be cammed down into a receiver cut, thereby lowering its locking face out of engagement with the breechblock. The breechblock can thus continue alone to the rear to extract, cock, and prepare for the forward stroke by compressing the recoil spring.

The Nambu weighs about thirty-one ounces, has a four-and-a-half-inch barrel, measures about nine inches overall, and has a magazine in the butt carrying eight cartridges. The magazine catch is similar to our Colt .45 Auto. A grip safety which is a trigger block is situated, as in the Italian Glisenti, in the front

of the grip below the trigger guard. A thumb safety of clumsy type is mounted on the left side of the receiver above the grip.

This is a striker-fired weapon. The chamber is loaded by pulling back on the projecting cocking piece to draw the breechblock back across the head of the loaded magazine, then letting the compressed recoil spring drive the action forward to chamber and lock. One shot can be fired for each pull of the trigger.

This pistol, as commonly encountered, has a blade front sight mounted on a T-base and a leaf rear sight whose open V-notch can be slid on its ramp to adjust from 100 to 500 meters. The butt is usually slotted to receive a detachable stock which converts the weapon to a "carbine." These stocks may be of wood or of heavy leather over some steel framework. They are usually fitted with a telescoping front section and a hollow interior to permit them to be used as pistol holsters.

Identification: The Nambu may be recognized and distinguished from the Model 14 by the fact that it has a single recoil spring which is housed in a receiver tunnel with its guide on the left side of the receiver; by the squeezer safety in the grip below the trigger guard; and by its rifle-type rear sight.

Model 14 (1925): Essentially, this pistol (in both its modifications) is like the earlier Nambu in method of locking and in operation. Its changes were made to facilitate production.

The major difference lies in the recoil spring system employed. Where the Nambu uses a single spring with a guide housed in a separate tunnel in the receiver, the Model 14 uses two recoil springs without guides mounted one on each side of the breechblock in special cuts. In both pistols, the barrel extensions are part of the original barrel forgings, milled out to permit the breechblock to shuttle back and forth during operation. While alike in principle, they naturally are different in actual machining because of the differences in the receivers occasioned by the change in recoil spring system.

The Model 14 weighs about thirty-two ounces, has a four-and-a-half-inch barrel, measures about nine inches overall, and has an eight-shot magazine.

(Above) Japanese Model 94. One of the poorest and most dangerous pistols made. Used by Jap airmen, but also sold for commercial export. *(Left)* Japanese Model 14 with large trigger guard to permit use with gloves. Also has a secondary magazine lock not on other Jap arms.

The magazine catch again is similar to our .45 Colt Auto. *There is no grip safety in either version of this pistol.* The thumb safety differs from the Nambu. It is a revolving lever mounted on the left side of the receiver above the trigger. When in forward position, it permits firing. Putting the lever in rear position sets the safety.

While the front sights resemble the Nambu, the rear sights are open V-notches machined into the top of the receiver. In standard issue, these pistols are not provided with slots to permit attachment of shoulder stock.

The Model 14 may be found with two types of trigger guards. When the trigger guard is large and bulged at the forward end, it indicates a pistol designed for use with a glove—presumably for Manchurian or other cold-climate use. This pistol has two magazine locking cuts—the standard one to receive the thumb catch lock and a lower one in the front to receive a heavy steel spring mounted in the grip to hold the magazine rigid at its lower end.

When the trigger guard is conventional, the secondary magazine lock is not found in the pistol. The design of the scoring on the stock differs from the large trigger-guard type.

Note: These pistols stay open when the last shot has been fired because the magazine platform rises to hold the breechblock back. When the magazine is withdrawn (this requires some effort), the action closes on an empty chamber. When a loaded magazine is inserted, the cocking piece must be pulled all the way back and released to load the firing chamber. These pistols have magazine safeties which prevent the pistol from firing unless a magazine is in the handle.

The ideographs near the safety read *"Ka"*—(fire) for the forward one and *"An"*—(safe) for the rear one. The marking on the left rear of the receiver reads *"Juyonen Shiki"* which translates "14th Year Model."

Model 94: This pistol is of radically different design than other Japanese pistols. It is often reported incorrectly as a Japanese "Browning design." Actually, its design and construction differs radically from that of any other automatic pistol ever commercially manufactured, and it does not resemble any of the Browning designs in either locking system or lockwork.

It was originally manufactured as a more compact arm than the regular service pistols and, unlike them, was advertised for commercial sale. It was adopted by the Japs as a substitute pistol in 1934, and was much used by the Air Corps.

From the standpoint of design, manufacture, and safety, the Model 94 ranks very high in the race for the *worst* automatic pistol ever produced. The sear is exposed and projects slightly from the left side of the receiver when the striker is cocked. It is possible to fire the pistol deliberately or accidentally by pressing in on the sear. The disconnector is not positive and the pistol can fire before the locking block has been cammed up into fully locked position below the barrel.

This is a short-recoil-operated pistol with a two-piece slide on the principle of the American Savage pistol. The recoil spring is mounted around the barrel within the front section of the slide. The cocking piece at the rear of the slide is detachable. A separate and removable locking block below the barrel is cammed up and down by barrel movement to lock slide and barrel together, but fitting and milling are both so sloppy that the lock is not too secure.

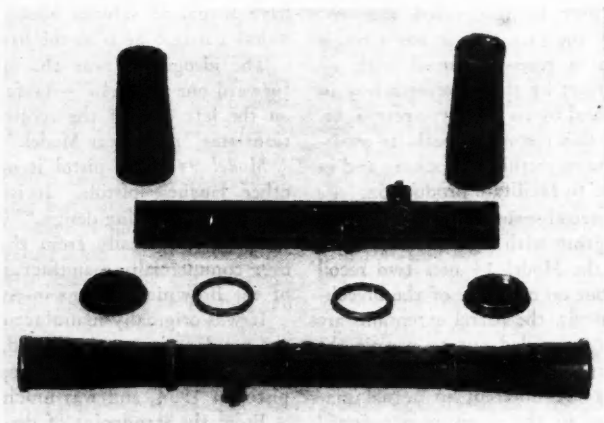
The Model 94 weighs about twenty-seven ounces, has a three and one-eighth-inch barrel, measures seven and one-eighth inches overall, and has a magazine in the butt carrying six standard 8 mm. Japanese caliber cartridges. Magazine release catch is a button, Colt .45 Auto style. A thumb safety is provided at the rear of the left side of the receiver. The inscription on the left side of the receiver above the trigger reads *"Kyuyon Shiki"* —or "94 Model." ♦ ♦ ♦

Five-Dollar Hunting Scope

By TRUMAN HENSON

I UNDERTOOK the making of this scope just for the fun of it and to learn a little something about optics. When, as a free and gratuitous bonus, I ended up with a product which, so far as I can judge, is a perfectly adequate big-game scope, my satisfaction was such that I should like to pass the idea along.

The scope, which is about 10¾″ long overall (including overhangs at the ends to protect the lenses, act as sunshades, and provide for screw-in dust caps), is a fraction over two and three-quarters power. The field is more than thirty feet at one hundred yards, and the eye relief exceeds four inches, permitting mounting the scope forward of the bolt handle. With due allowance for paternal pride, and admitting that there is some slight curvature at the edges of the field, I think the definition and resolution are distinctly good. The exit pupil is a little over eight millimeters, and the brilliance and light transmission are certainly all right. The reticule is adjustable, internally, for both windage and elevation. While these adjustments do not work with the precision of standard target scope mounts, they will, I feel sure, suffice for zeroing in. The main tube is ⅞″ outside diameter, which is the size to fit standard hunting scope mounts.



Home made, requiring nothing elaborate in the way of either tools or material, this is an adequate good-looking scope.

The scope contains five lenses. Each is an achromat; that is, a compound lens consisting of two separate lenses made of different kinds of optical glass fitted and cemented together into one doublet lenses. This is done to overcome chromatic aberration. One of the components of each achromat is made of crown glass, convex on both sides. The other, or flint glass, part is concave on one side (to fit over the crown lens to which it is cemented) and slightly convex on the other side.

The crown element of the first, or objective lens, must face forward, or outward, with the flint element facing into the tube. This lens forms an image of the object being observed, which image is located inside the tube at a distance from the objective lens approximately equal to the focal length of the lens. This distance varies slightly with the distance of the object being observed, and that is why scopes have to be adjusted for parallax, for the cross hairs of the reticule must be located exactly in the plane of the image. In this scope, adjustment for parallax is made by screwing the tube holding the objective lens in and out on the main tube.

The image formed by the objective lens is inverted, both top for bottom and left for right. To get the image right side up and right side around, we need an erector system, which (in this scope) is made up of two achromats placed in contact, with the crown elements together.

The erectors form a second and reverted image; and this is viewed through another system of lenses, called the eyepiece. Our eyepiece also consists of two achromatic lenses set close together, with the crown elements of the lenses together.

A property of a combination of two lenses placed in substantial contact, is that the focal length of the combination is just about one half the focal length of each of the individual lenses. This is important because it gives us most of our magnification. Disregarding the erecting system for the moment, the power or magnification of a telescope may be found by dividing the focal length of the objective lens by the focal length of the eyepiece. Thus, if, as here, the objective lens and both lenses which make up the eyepiece are all identical, and since the focal length of the eyepiece is one half the focal length of the lenses which combine to form it, it is evident that our scope is going to be two power. But unless the erector system is placed so that it is equidistant from the first and second images mentioned above, it also will affect the magnification. So we place the erecting system a little closer to the first image than to the second to get a little more magnification or power. The theoretical power of this scope is about two and eight tenths.

Now for the lenses. Some amateurs grind their own. If you are up to that, you're out of my class. But lenses can be bought. There is at least one firm advertising in American scientific and mechanical periodicals, which sells so-called "government surplus" lenses. I bought five of those: three magnesium-fluoride-coated achromats, twenty-five millimeters in diameter by ninety-five millimeters focal length, at eighty-five cents each, and two magnesium-fluoride-coated achromats, eighteen millimeters in diameter by forty-nine millimeters focal length, at seventy cents each; total, three dollars and ninety-five cents for lenses.

Of these lenses, one of the larger ones is the objective, and the other two of the larger ones make up the eyepiece. The two smaller lenses make the erector system.

Next, buy about nine inches of steel tubing, seven-eighths of an inch outside diameter by twenty gauge (about 1/32″) thickness of wall (I paid seventeen cents for mine), and about eight inches of steel tubing three quarters of an inch inside diameter by an inch and an eighth outside diameter. (Mine was 1¼″ outside diameter and cost forty-two cents.) I also paid fifty

cents to the Weaver scope company for two of their click springs for the reticule adjustment screws of their 330 C scope. And that, plus a few cents worth of small machine screws, is all I spent. Aggregate cost, five dollars and four cents.

(You will have to spend a dollar or so more unless you have in your shop, as I did, a scrap box containing some two- or three-inch lengths of brass pipe and a couple of inches of 1¼" cold-rolled steel shafting.)

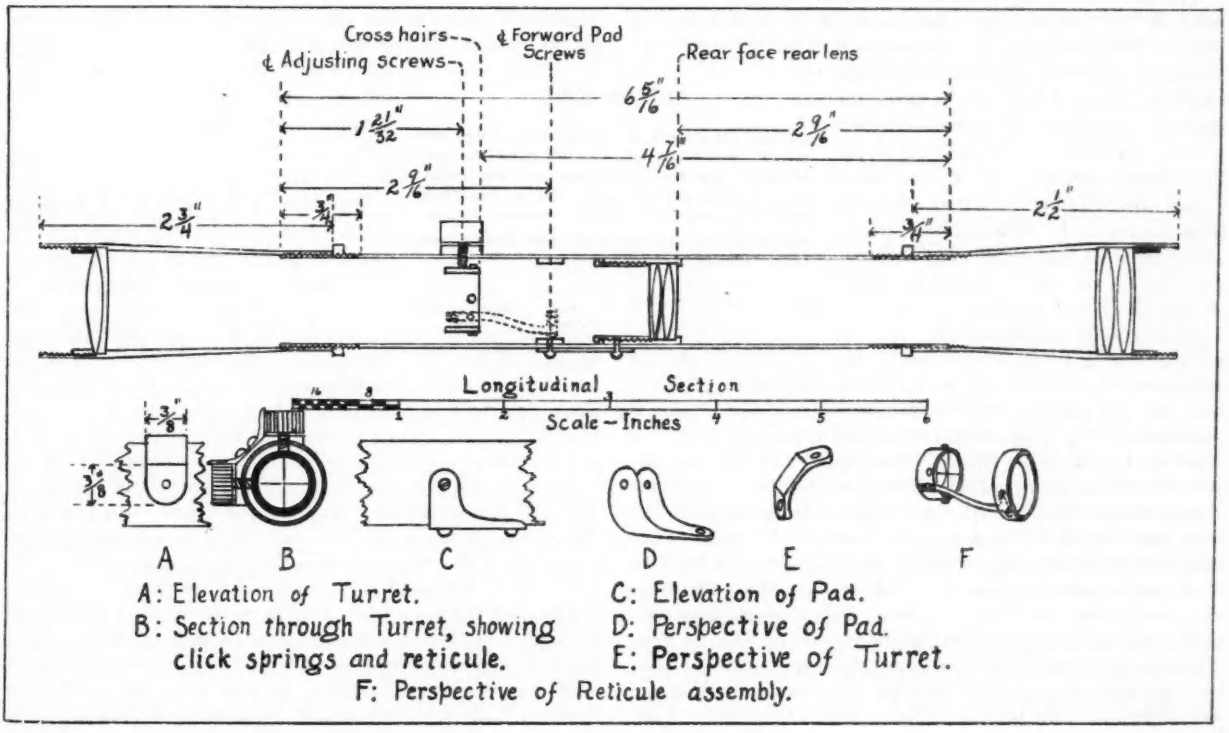
So far as equipment is concerned, you will need to have access to a screw-cutting lathe and you will need some small taps and dies and a few other modest hand tools.

Take a look at the drawing and at the photograph. The latter shows the scope assembled and partially disassembled. In the disassembled view, in the foreground are the two dust caps and the two locking nuts. In the center is the main tube containing the erector cell and its lenses and also the reticule assembly. In the background are the two endpieces. The shorter is the eye endpiece, containing its two lenses, and the longer is the objective endpiece containing its lens. The dimensions shown on the drawing and given in the text are for a scope of the power described, with lenses of the characteristics named above. If you want to try any variations of power by changing the position of the erecting system, or if you want to use lenses of slightly different focal lengths, get some telescoping paper mailing tubes of appropriate size and mount your lenses temporarily in them. Then, by pushing the tubes in and out, you can experiment until you get just what you want. The dimensions of the steel tubes can then be varied accordingly.

And so to get down to work. First, the main tube. Chuck your ⅞" tubing in the lathe, face the end, thread it on the outside for three quarters of an inch, forty threads to the inch (or some fine thread), and cut it off 6 5/16" long. Next, chuck a piece of scrap about 1¼" in diameter, bore it out about a half inch deep, and thread it inside to fit the threaded end of your tube. This makes a chucking piece which you should save for subsequent operations. Screw the tube into it and thread the second end just like the first.

Now make two knurled rings about 1 1/16" outside diameter and 3/32" thick, and thread them inside to fit your tube. These are jamb nuts to lock your end tubes in place after you have made your final adjustments for parallax and focus.

The two end tubes must be bored out to fit the 25 mm. lenses at one end and threaded to screw over the main tube at the other. One of these end tubes, that for the objective, should be 2¾" long. The end tube for the eyepiece is a quarter of an inch shorter. Bore and thread one end of each piece inside, for a half inch of length, to fit your threaded main tube. Then put your chucking piece back in the chuck, screw the main tube into it, and screw one of your locking nuts and then one of your endpieces on to the other end of the main tube (which, in all these operations, should, of course, be supported by the steady rest). Lock the endpiece on with your jamb nut, and bore out the exposed end of the endpiece ¾" deep in the case of the eye endpiece, and ⅝" deep in the other, and just big enough to allow your 25 millimeter lenses to slip in. This will be just about 1" diameter, but mike your lenses to make sure. Then thread the inside of the hole, 40 threads to the inch, for the full depth, less a hair under the thickness of your objective lens, in the case of that endpiece, and a hair under the combined thickness of the two eye lenses, in the case of that endpiece. Next bore out the remainder of the endpiece, on a taper, from a diameter 1/32" less than the diameter of the lens, at that end, to ⅞" diameter at the other end, right up to the threads you cut to fit on your main tube. Thus, you will be leaving a 1/64" shoulder to hold your lens against, at one end, and, at the other end, will be able to screw your endpiece a full ¾" on the main



A: Elevation of Turret.
B: Section through Turret, showing click springs and reticule.
C: Elevation of Pad.
D: Perspective of Pad.
E: Perspective of Turret.
F: Perspective of Reticule assembly.

tube, if you want to. Now turn down the outside of the endpiece until it is about 1/32" thick, everywhere. It will look better, and add nothing substantial to the weight, if you do not leave sharp corners at the ends of the taper part of the turning, but blend the taper gradually into the straight parts at each end.

Next, take a short scrap of brass pipe, bore it out to 31/32", turn and thread the outside to screw into the lens ends of the endpieces, and cut off two pieces about 1/4" long. These are retaining rings to screw into the endpieces on top of the lenses to hold them in against the shoulders which you left in the endpieces. File a couple of screw-driver slots in one edge of each ring, so that you can turn it in.

Next, turn and bore a scrap of your brass pipe to 1" outside diameter and 31/32" inside diameter and cut it off to a length just a shade longer than the distance between the edges of the two eye lenses when they are in contact. This piece is a separator ring to go between the two eye lenses when you put them in the endpiece, and should be just long enough to keep them from touching.

The erector cell comes next, and it is also brass. Turn the outside of a scrap of brass pipe for 3/4" of length, to a snug slip fit inside your main tube. Bore out the inside to take your 18 millimeter lenses (about .710"), but leave a thin shoulder at one end, by boring the last 1/64" to only about .680". Thread the inside of this, 40 threads to the inch, except for a shade less than the combined thickness of your two 18 millimeter lenses. Then, for a retaining ring to hold the lenses in the cell, thread the outside of another brass pipe scrap to screw into the cell you have just made, and bore it to an inside diameter of .680". This piece can be long enough to extend outside the cell and have a knurled rim to screw it in by. I did not make a separator ring for these lenses, because they are so small and light, and I wanted them in contact.

The next job is the reticule. I decided to utilize the same principle for my internal adjustments as is typified in the mounts commonly used on target scopes: that is to say, two adjusting screws at right angles to each other and opposed by a single spring set opposite a point halfway between the two screws. Doubtless the commercial scopes have better methods; but I have never looked inside one and the system I adopted seems to me to be sufficient for zeroing adjustments. Once zeroed in, I shall expect to leave the adjustments of my scope strictly alone, and hold over for range when necessary.

After trying, without success, to evolve some sort of a slide for the reticule to work in, I finally decided upon the plan of supporting the reticule ring with a narrow flat spring about an inch long and with the other end fastened to another (or reticule positioning) ring which would be secured inside the tube. For a spring, I took an old Model T Ford spark coil vibrator, but any thin flat spring would do. Anneal your spring and cut out a piece shaped like a T with the upright and crossbar each 1/8" wide, the upright 1" long and the crossbar 3/8" long. Then take a scrap of brass pipe, turn the outside to a tight push fit in the main tube, bore out the inside to leave the walls about 3/64" thick, and cut it off 1/4" long. File a couple of screw-driver slots in one edge of this reticule positioning ring (so that, when you put your reticule in, you can turn it until the cross hairs are square), and when you put the reticule together, see that these slots face the rear. Next, bend the crossbar of the spring steel T to fit the inside of the positioning ring, and drill and tap two holes for #0-80 screws to fasten the spring inside the ring. Then turn up a brass ring 1/2" inside diameter, with 3/64" walls for the reticule itself. While this is still in the lathe (and you can use a stop in the teeth of the bull gear if, like me, you have no indexing head), cut four very fine grooves with a sharp tool ninety degrees apart in one end, for the cross hairs to lie in. Then cut it off 5/16" long. Next, drill and tap four #0-80 holes ninety degrees apart through the ring, for screws to hold the cross hairs, and drill and tap two holes of the same size through the bottom of the upright part of the spring T and through the reticule ring, in such a position that the spring will be attached to the outside of the ring just midway between two of the grooves for the cross hairs. Next, screw the spring to the inside of the positioning ring and the outside of the reticule ring and bend it until, if the positioning ring were inside the tube, the reticule ring would be pressed up against the wall of the tube on the side opposite the spring. (See Figure F of the drawing.)

Then remove and retemper the spring and fasten it permanently to the two rings, filing off the ends of the screws flush with the outside of the positioning ring and the inside of the reticule ring. Next, screw four round (or filister) head screws through the holes in the reticule ring, and file them off flush with the inside of the ring. The heads of the six screws in the reticule ring should also be filed down as thin as possible and still leave enough thickness to file shallow screw-driver slots with a very thin knife file. Then back off the four hair holding screws a half a turn, and, taking a couple of inches of .002" wire, put a turn of it under one screw head and screw the latter down. Then, leading the wire through the adjacent groove in the edge of the ring and through the opposite groove, take a turn under the head of the appropriate screw and turn it in. Cut off the wire, and repeat with the other screws and grooves, which will complete the cross hair installation, and also the reticule, except for a thin coat of flat black enamel on everything except the cross hairs and the outside of the positioning ring. Due to their position in the optical system, the .002" cross hairs are magnified just about right for a hunting scope.

In order to give a little more thickness to the main tube for the threads of the screws to hold the erector cell and reticule positioning ring in place, make and attach a pad. Drill three #50 holes ninety degrees apart around the circumference of a scrap left from the main tube, and 5/32" from the end. Then drill another hole of the same size, 5/8" from the center one of those three holes and in line with it. Cut out the piece with the four holes in it to form an L shape in elevation, or a T if it were opened out flat, but with all corners rounded, and wide enough to leave 1/8" from the center of each of the holes to the edge at any place. (See Figure D of drawing.) This pad should then be sprung and slid on the main tube with the centers of the three holes each 29/16" from the adjacent end of the main tube, and the outline of the pad scribed on the tube. Then slide it off and tin the inside sparingly with solder, also tinning the place where it is to go on the main tube inside the scribed line. Slide it back in place and heat the tube and pad together until the solder melts. The tension of the pad, with its inside sprung over the outside of the main tube, will be sufficient to make a tight joint and obviate the necessity of clamping. The

PATROL LORE

I saw the Japs before they saw me and got my rifle into action first. In this game the man who sees and fires first is the one who comes back to go on another patrol.—Private First Class Elbert A. Landers, 32nd Infantry Division, describing his patrol experiences in New Guinea and Leyte.—The Infantry Journal.

four holes should then be drilled on through the main tube with the #50 drill and all four tapped #2-56.

The next thing is the turret to give enough thickness to provide several threads for the reticule adjusting screws. For this, take the remaining piece of your thick-walled tubing and bore it out 3/8" deep to 7/8" inside diameter. Then drill two holes through the tubing with a #38 drill at ninety degrees from each other and cut it almost, but not quite, off to a length of 3/8". Put it in the vise and cut away the outside of the tubing so as to leave two flats 3/8" across, centered on, and at right angles to, each of the holes, and joined by another flat between them, so that an end view of the piece looks like a section of an octagon with a 7/8" round hole bored concentrically in it. Leave 1/16" thickness between the center hole and the flats. Then finish cutting the piece off and round the ends on a 3/16" radius centered on each of the small holes. (See Figs. A, B, and E of drawing.)

When you put the pad on the main tube, the end of the tube nearer the pad became the front and the side with the two holes in longitudinal line became the bottom. The turret should be clamped on the outside of the main tube so that the centers of the small holes in it will be 1 21/32" from the front of the tube, and one of those holes exactly on top. Its position should then be scribed, and it, and the place thus marked for it to occupy, tinned. Then clamp it back in place and heat it until the solder melts. When it cools, the clamp can be removed, and the two holes should then be drilled on through the main tube and tapped #5-40.

"Them Yanks, allus takin' all the credit! They know dum well there's a-plenty good Kaintucky riflemen helpin' win that war!"

Next in order are the reticule adjusting screws. For these, make two #5-40 screws, 7/32" long under the heads, and with heads 3/8" in diameter and 1/4" thick. The ends of these screws should be just as smooth and flat as you can get them. Since the bull gear on my lathe has seventy-two teeth, I grooved the edges of the heads with a pointed tool, moved sideways with the saddle handwheel, every three teeth of the bull gear, and in like manner I scribed a division mark on the top of the head, every six teeth of the gear. I made every third division mark longer than the others and stamped the long ones 0, 3, 6, and 9, respectively. Thus, turning the screw one notch, or click, moves the reticule one twenty-fourth of 1/40" or 1/960", which is not very far from 1/2 minute. Turning the screw two clicks, or one division, moves the reticule 1/480", or something like one minute. In threading these screws, make them a tight fit in the tapped holes, so that it takes real effort to turn them. Then with your click springs to help, you won't have your adjustments, and hence your zeroing, inadvertently altered. Probably you can make your own click springs, but I bought two of Weaver's (for the 330 C) at a total cost of 50¢. Those springs are made to hold two screws, but on a smaller tube; so I broke off one end of each and used two. They are screwed to the middle, flat on the turret. (See Fig. B of drawing.)

Except for turning up a couple of screw dust caps, which I made from a scrap of 1 1/4" cold-rolled shafting, nothing remains but the blueing and then the assembly. The former is no different from any blueing job, except that the inside, as well as the outside, should be blued and that you have to work fast because the parts are thin and cool quickly. Just be sure you scrape all the solder off the steel around the edges of the pad and the turret, before you start to blue.

For the assembly, turn up a stick just big enough to slide inside your main tube. Then, working from the rear of that tube, insert the reticule ring, followed by the positioning ring which is attached to it by the spring, and push them forward with the stick until the cross wires are 4 7/16" from the rear of the main tube. Break and grind off a piece of old hack-saw blade so it will just slip into the main tube, clamp it in the end of a split stick, and use it in the slots in the reticule positioning ring to square up the cross hairs. Then put your erector lenses, crown to crown, in their cell, screw in the retaining ring, and insert the cell (which should first have been thinly painted with flat black except on the outside where it is to slide in tube). Insert it with the open end forward and the lens end to the rear and push it in until the rear face of the rear lens is 2 9/16" from the rear of the tube. Drill a hole with your #50 drill down through the rearmost hole in the pad and on through the erector cell, and tap it #2-56. Similarly, drill and tap the other three holes in the pad down through the reticule positioning ring. Blue four roundhead #2-56 screws 1/8" long and screw them into these holes. They hold the reticule positioning ring and the erector cell in place. Set all screws, except the reticule adjusting screws, with gasket shellac.

Next, insert your objective lens in its end tube with the crown glass facing out, and screw in its retaining ring with a short section of hack-saw blade held in pliers or clamped in the split end of a stick. Then insert your eye lenses, crown glass to crown glass, with the separating ring between them, and turn in the retaining ring. All three retaining rings should probably be set in gasket shellac, after you are sure everything is all right, but don't get any shellac on your lenses. Alcohol, which will cut shellac, will also soften up the cement which holds the lenses together. Also, it does not take much scrubbing to rub the nonreflection coating off your lenses.

After making sure your lenses are clean, screw the locking rings and endpieces onto the main tube. Remove parallax by screwing the objective endpiece in or out, and focus with the eye endpiece. If you focus and adjust parallax at about 100 yards, the scope will not be out by any substantial amount at any probable range. Screwing the reticule down, or to the left will move groups down or left, and turning the screws out will move groups up or right.

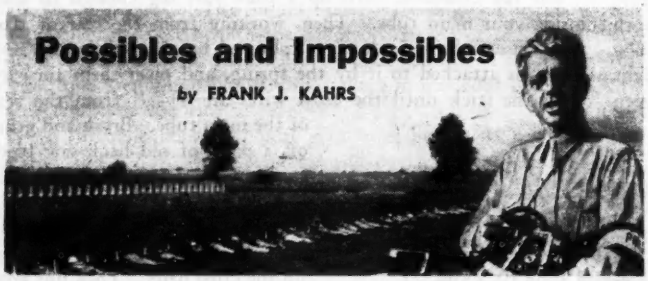
When you have your reticule adjusted so that the cross hairs center the view, and when parallax has been eliminated and the focus is right, screw up your locking rings and the job is done. ♦ ♦ ♦

A PAPER FOR PEOPLE WHO SHOOT

Rifle

VOL. 8, NO. 11

BRIDGEPORT, CONNECTICUT, N



Possibles and Impossibles

by FRANK J. KAHRS

THE latest communique that I have on the subject of Currier & Ives prints comes from Los Angeles. My correspondent has reached that time in life where his judgment is mature, and I have great faith in him. I was quite intrigued by the originality and practicability of his suggestion, and I think many of my readers will agree with me.

In discussing the various positions assumed by the old boys of long ago, he believes that we ought to ask the NRA to include a "Wheel Chair Special" at the next National Matches at Camp Perry. He believes we would get quite a few entries.

He also suggests that we prescribe the position of the old gentleman shown in the picture "E Pluribus Unum," where you rest the rifle barrel between the toes of the right foot, cock the left leg over the barrel, and use the shoe for a headrest. By letting down the back of the wheel chair and raising the leg rests, this position ought to work pretty well off the deck of the chair. Also, in this position it is believed that there would be less danger that the whiskers would be apt to tangle with the rifle bolt.

At this point I would like to pause a moment and ask my readers in my most solemn manner if we should go on with this thing, or whether we should call it a day and let the matter rest with that august committee of NRA bigwigs, who are more competent to judge of the merits of this suggestion than we are.

Anyhow, "Three Cheers For Grandpappy!"

* * *

Had a letter the other day from a well-known small bore rifleman who was lifted out of his civilian job of shooting in matches and making stocks for target rifles, fixing up guns, and all that sort of thing, at which he was very clever too, and inducted into the Navy and assigned to a rifle range. Out of a clear sky he was sent to China, where he now is, and in his letter he says:

"The people are interesting to work with and just love to get their hands on what your outfit makes. The other day I was sharpening a chisel and tested it by shaving some hair off my arm, at which the kids (Chinese) seemed very interested. The following day they returned with reinforcements and wanted me to repeat the performance. Just what they told their parents about the crazy Americans who shave their arms is the question.

"The country is rather mountainous, and civilization is far backward here, even after 4,000 years. The mode of travel is up and down thousands of stairs and steps built of rock, hand cut of stone, polished smooth by bare feet after many centuries. Trails lead all through the hills, and all freight is carried by human carrier on yo-yo poles.

"What has all this got to do with rifle shooting? Nothing, except the impossible has become the possible because this small borer might have gazed into the crystal ball for a long time and never conjured up anything resembling what he has gone through since he tucked the small bore rifle back into the closet at home for the duration."

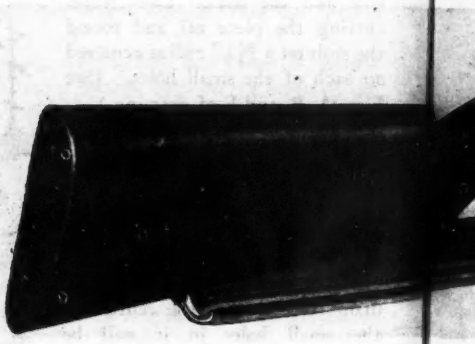
* * *

Speaking of queer positions in shooting. A well-known British rifleman, who shot at Sea Girt in 1901, recently wrote me and said:

"I do not know why it is, but the back position was almost exclusively in use up to 1939 in the Long Range Competitions. In the Elcho and other Long Range Competitions, I confess that at my time of life it is the only position in which I am likely to be successful; but all the same, I think it should be abolished.

"We are hoping to renew our Bisley Meetings now that the European war is over. I forget if I mentioned that we had a One-Day Meeting on the 21st ult., which attracted 419 competitors. As the Small Arms School occupies all our buildings, we could not offer sleeping accommodations or catering, and very few men could come from a distance."

LIMITED QU
513T TARGE



A COMBINATION THAT WINS MATC

CROSSTOWN, U. S. A., November, 1945.—When you get a new Remington Model 513T target rifle and you want to start shooting winning scores from the start, ask for good old reliable Remington 22 caliber ammunition with Kleanbore noncorrosive priming. The Model 513T and Remington 22 cartridges give you superb accuracy at all target shooting ranges.

AROUND OUR CLUB . . . . Shooting Around the

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WEATHER:
INDOOR SHOOTING RECOMMENDED
THIS WINTER

T, CONNECTICUT, NOVEMBER, 1945 — First Class Reading Matter for Rifle Shooters

UNTITY REMINGTON MODEL
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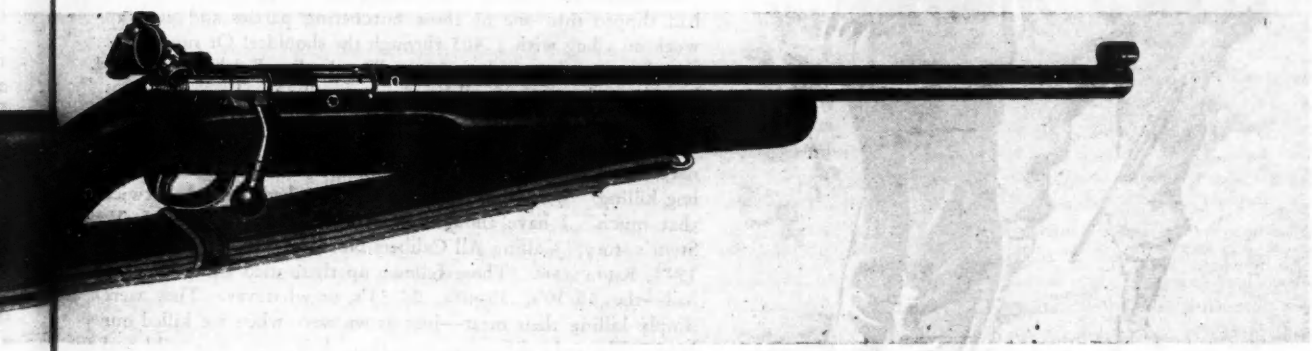
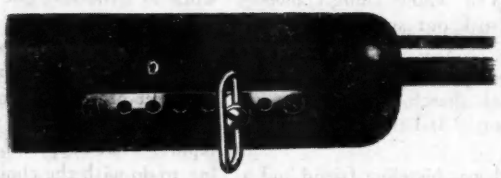


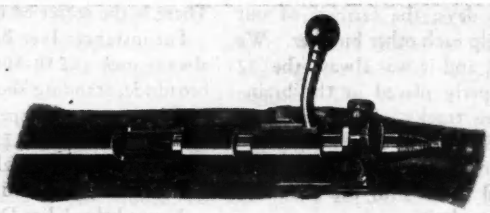
MODEL 513T HAS EVERY DESIRABLE FEATURE FOR MATCH SHOOTING

BRIDGEPORT, U. S. A., November, 1945.—Redfield globe type front sight has seven interchangeable discs to satisfy the various preferences of all shooters. Redfield rear sight, No. 75, of micrometer type with quarter-minute adjustments for windage and elevation. Rear sight is located near the eye.

Kleanbore, Rangemaster, and Matchmaster are Reg. U. S. Pat. Off. by Remington Arms Company, Inc.



The Remington Model 513T has an adjustable front sling swivel so that it fits both long- and short-armed shooters and helps obtain the ideal sling tension. The tailored stock was designed by one of America's best known rifle shooting authorities. Notice the broad beaver-tail fore-end, which rests comfortably in the hand.



Smooth, easy action has a new type bolt handle; short, smooth, crisp trigger pull; new anti-backlash trigger stop; corrugated trigger and short, fast firing-pin travel. Red firing indicator shows when rifle is cocked. Positive side-lever type thumb safety.

THE RIFLE YOU'VE BEEN WAITING FOR

BRIDGEPORT, CONN., November, 1945.—The rifle shooters have been waiting for . . . the Remington Model 513T Matchmaster, is back on the civilian market in limited quantities! It's a great day for target shooters who have been waiting patiently for this extremely accurate, fully equipped, correctly designed rifle for fine target shooting.

From butt-plate to muzzle the Remington Model 513T reflects precision workmanship for extreme accuracy. It has many of the outstanding features of its big brother, the Remington Rangemaster Model 37. New clubs and other groups getting started in rifle shooting will find the Matchmaster has every desirable feature for match shooting in all positions. Experts, too, will be surprised when they test its accuracy and easy handling qualities.

Remember, the supply is necessarily limited for the present. If you want a Remington Model 513T, see your local dealer today. For a free folder, address: Rifle Promotion Section, Remington Arms Company, Inc., Bridgeport 2, Conn.

The Tool for the Job

By O. A. KNIGHT

"LOOK AT THAT SHOULDER! The whole thing's bloodshot and ruined! It'll never soak out and cure like the rest of the meat!"

Jim Keleher was Irish and, at this moment, his Irish was up. His blue eyes, under his tousled black thatch, were cold as ice as he turned them on Bill, his neighbor. "If I thought you done that a-purpose . . .!"

He didn't finish his thought. Bill was his close friend and a good neighbor, else he wouldn't right now be helping butcher Jim's hogs. But, although this happened way back yonder when I was not much more than knee-high to a grasshopper, I still remember the chill Jim's eyes gave me when he looked at Bill. And Bill was as innocent as a newborn babe! Jim knew that, but the loss of that pork shoulder hurt.

It was a simple thing. In those days, the farmers of our community always got together to help each other butcher. We always shot the hogs with a .22 rifle, and it was always the .22 Short cartridge that we used. Properly placed in the brain-pan, it dropped the biggest hog in his tracks. He never knew what hit him. But Bill was out of Shorts this time, and he had used a Long Rifle cartridge to kill Jim's hog. That bullet went right through the brain and ranged down into the shoulder! And that shoulder was a mess, I must admit.

They were particular about their butchering in those days. A man who could not gut a hog without puncturing an intestine or the bladder was looked upon with scorn. They wouldn't stand for having their meat dirtied, however carefully it would be cleaned later. No, sir! And they didn't want any meat spoiled by bullets either.

I shudder to imagine what would have happened if someone had slipped into one of those butchering parties and gone to work on a hog with a .405 through the shoulder! Or suppose he gut-shot a porker with a .270! Wow! Jim Keleher wouldn't have wasted any time talking, in a case like that!

With this as a background, maybe it's not surprising that, whenever I hear all this talk about the "cannon" some folks deem necessary to kill a little 150-pound deer, I think back to our hog killing. Why, some of those hogs weighed more than twice that much. I have thought of it a lot since reading H. V. Stent's story, "Calling All Calibers North of 54," in the March, 1944, RIFLEMAN. Those fellows up there used the guns they had—the .30-30's, .30-40's, .25-35's, or whatever. They were simply killing their meat—just as we were when we killed our hogs. The only difference was that their meat was wild and they couldn't get quite as close to it as we could with our domestic hogs. But they wanted quick, sure kills with little meat spoilage, just as we did; and the rifles and the calibers they used did the job, just as the .22 Short did the job for us.

If I didn't know something about this business, I wouldn't stick my neck out, because I know someone is going to use it as a target, sure as shootin'. But, some five or six years ago, my work as a metallurgist took me up into the interior of British Columbia, around that same "54." And, from my observations at that time I can corroborate Stent's findings as to the rifles and calibers used by the natives. (I might add here that this is not a matter of what I would recommend necessarily. It's simply a matter of reporting the facts, just as a good newspaperman reports what happened, whether he likes it or not. I had nothing to do with the choice of weapons of any of the people I met up there—any more, I imagine, than did Mr. Stent. We simply report what we saw. . . . Of course, the fact that their reasons for using the weapons they use seem to me to be logical and justified, is another matter!)

If these weapons seem to you to be inadequate, consider the reasons for the choice and *the manner in which they are used.* There is the secret of the success of these "inadequate" rifles.

For instance: Iver B. Guest, of Prince George, told me that he always uses a .250-3000 Savage on moose. But he takes only broadside, standing shots at fifty yards or less. A game warden in Penticton, who spent his younger years as a trapper in the Yukon, used a .25-35; and, while he admits that he never actually hunted grizzlies, he did kill "quite a few" with this gun as he encountered them along his trap lines.

I once helped Jim Derickson skin out a fair-sized mule deer he had killed with his .25-20. The bullet had pierced the heart and I removed it from under the skin on the far side of the body.

These are just a few of the many incidents I either observed or learned about while "north of 54," all in harmony with Stent's observations. He has reliably informed us of the tools those people use for their job of butchering, and it is unnecessary to enlarge on it.

That story is certainly thought provoking, especially if the reader is addicted to the hunting of big game. It can't help but make him wish he were as good a hunter as those folks up "north of 54." And if he *were* as good—at stalking and at the finer points of hunting—as his northern cousins, *it wouldn't make much difference what caliber rifle he used!*

Now, if we were to "call all calibers south of 54," as they are used by the rank and file of sportsmen and by backwoodsmen as well—and if we could consider in an open-minded, unbiased way the reasons for the use of some of these calibers—I have a hunch that we might arrive at a better understanding of the situation. We might even declare a truce in the long and bitter "thutty-thutty" war.

As a matter of fact, the actual tools used for the various jobs—in this case, the various calibers used in the different types of hunting—are not the only factors to be considered. This is one point too often neglected or ignored. It is not all a case of pure ballistics, by any means. People are different, if you will allow me to coin a phrase; and because of those differences they may require different tools to do the same job. I may have to use a machete for the same job you may be able to do with a jackknife. And the deer Jim Derickson may be able to bag with his .25-20 may require a .300 Holland and Holland in the hands of Oswald P. D. Q. Snootyworth, of Boston, Squedunk, and South Hampton.

People are different not only inherently but because of their varying ways of life, their associations, and their environment. The folks up around "54" are as clean with their moose meat as were my boyhood neighbors with their pork; and they are just as careful in their butchering methods. They, therefore, use tools quite different from those of the trophy-minded sportsman who is not too much concerned about the meat problem. For generations, those people have taken their winter's meat supply in this manner and they have learned the proper way of doing it with the least possible waste. There is nothing new or novel to them, as there is with the recreation-seeking sportsman, in the mere matter of killing a deer, or a moose, or a bear. There's no thrill to it. It's just another chore. They go about it in a competent, businesslike manner, composed and unhurried. If they don't get it today, they will get it tomorrow, or maybe the next day; maybe even next week. There's no rush. There's no rush in anything these people do. They have lived too long too close to the earth to be much given to haste. Long years of life in what, to us, may be "the backwoods," have endowed the "backwoodsman" with the calmness of the hills, the quiet and depth of the woods, and the unhurried strength of Nature itself.

He knows his country and all its ways because he's a part of it. The fresh tracks of an elk or the "scats" of a deer which would run the pulse of the sportsman skyward are but commonplace to him. The eagle's scream, the howl of the coyote, are everyday matters to him.

The sportsman, on the other hand, finds all these things new and exciting. He may have seen and heard them before, but he has not lived with them. They'll always be new and novel to him. He has come here to get away from his telephone, his secretary, his appointments—from the helter-skelter of everyday business and city life. Normally keyed to a higher nervous tension than his backwoods companion, his reactions to these exciting things are quicker and more violent. Though he has come here for a rest and a change, he also has, perhaps unconsciously, another definite objective in mind even on this trip. That objective is a fine trophy and, maybe, some red meat.

Therefore, even on this vacation trip, he is a man with an exciting job to do in a limited time, in unfamiliar and tremendously interesting country. Actually, he has probably been "all steamed up" about the trip for weeks, and the chances are that his arrival on the scene is not going to calm his nerves to any great extent.

Lacking the hunting ability of the woodsman, he will probably be unable to get as close to his quarry. And lacking all the time he might like, he will have to take whatever shot or shots the goddess of the chase may offer. These shots may be anything but the best for effective shooting. Consequently, even though he may be an expert rifleman, with a fine weapon equipped with first-rate sights, and even though he may know just where to hold, the shot is apt to be but a crippler.

For, in the last analysis, it's the hurried shot, the shot taken under handicapping circumstances rather than the caliber of the weapon, that causes the greatest destruction of meat and the greater number of crippled (and lost) animals. With plenty of time for the job, our woods-wise friends will do a better, cleaner, more certain job with less powerful weapons. The hurried city man takes chances that the woodsman would never consider. He takes whatever shot is offered in the limited time at his disposal and, therefore, he must have a more powerful tool to do the same job. That is the reason for the heavier calibers in the hands of "dude" hunters—and it's a good enough reason if only the "dudes" learn how to use their weapons with reasonable skill and judgment.

Here in Pennsylvania, we have another good reason for the use of calibers that will really anchor the game with the first shot. The law reads, in effect, that the meat belongs to the man who reduces it to possession. Now, when you hunt in woods crowded with hunters, you're up against still another situation that makes it imperative for you to take whatever shot you can get—before some other hunter beats you to it! And when that deer runs off, mortally wounded, and is then brought down by another shot from a hunter on the next ridge, that deer belongs to him. It isn't your meat, and no amount of argument will change the situation.

That's why so many fellows here go for the heavy slugs that drop a deer as if he'd been slugged with an axe. The .405's and the .348's bring home the bacon—or, in this case, the venison. This is a job for a heavy tool in the hands of less proficient workmen. It's sad, but it's true.

"Circumstances make morals." What's right in one case may be damned silly in another. Use the gun you need to do the job the way your skill and your circumstances enable you to do it—and don't be too critical of your "country cousin" who does it differently. ♦ ♦ ♦

POWDER SMOKE: THE NEWS DESK . . . READERS COMMENTS

RIFLEMAN PROVES USEFUL

Baltimore, Maryland.

Editor:

May I take this opportunity to express my appreciation to you for the service you rendered this office in supplying copies of THE AMERICAN RIFLEMAN monthly for the past several months.

The magazine was of great value as a source of useful information and aided considerably the Pre-Induction Training Program of the Third Service Command.

Major H. L. Dotson, AGD,
Chief, Pre-Induction Training Branch,
Third Service Command.

OLD MASTER

Brooklyn, New York.

Editor:

On a recent visit to the home of Seymour N. Murphy, I found him in bed as the result of a heart attack that had almost proved fatal. This grand old sportsman of 86 still has possession of all his mental faculties and had his wife bring out some of his many trophies, one of which was the bound targets of the match in which, in 1918, he made the world's offhand record which, I believe, has never been equalled.

He mentioned many of the great and almost legendary experts that he had shot against: Pope, Ballard, Hubalek, and others. Listening to him as he lay there in bed was to hear a spoken saga of American rifle lore.

I know that riflemen everywhere will echo my hope that he will be spared for many a year yet to come.

Samuel J. Erlichman.

TESTIMONIAL

Ryukyus.

Editor:

Thanks to practical experience gained in the Park Ridge Rifle and Pistol Club and to technical knowledge gained from THE AMERICAN RIFLEMAN, my initial rating in the Seabees was Gunner's Mate First Class. Since then I have put that knowledge into action as Battalion Armorer, instructor on weapons to the Battalion, and in actual rifle range work. I can truthfully say that my promotion to Chief Gunner's Mate (Armorer) is due to that experience and to the help given me by your magazine and by the NRA Technical Division to whom I have frequently written for answers relating to Ordnance problems.

I have made definite postwar plans to include a lifetime membership in the NRA and plenty of NRA competitive shooting.

Edwin A. Hoppy, C.G.M.

CORRECTION AND APOLOGY

Deerfield, Massachusetts.

Editor:

Have just finished reading the article, "It's An Old American Custom," by Henry W. Miller. Having been a student of early American, British, and French arms for over forty years, I was surprised to read of a French musket of which I had never heard; that is, the "French Charleroi musket of the Model of 1763."

I wonder if Mr. Miller has confused the French Charleville musket of 1763, quite possibly from a poor inscription on the lock plate of one he examined. I have owned a dozen or more of the French flintlock muskets from the four French Armories (St. Etienne, Charleville, Maubeuge, and Tulle) including several of the Charleville muskets of the Model of 1763. This model, as you doubtless know, was the one used at Springfield as a pattern for the first model Springfield musket of 1795.

I think, too, that Mr. Miller adds further confusion to an already much debated subject when he speaks of the Kentucky rifle as the "Lancaster rifle." It seems to me that it would be more accurate to call them Pennsylvania rifles for, although Lancaster was the first settlement of the Swiss and German rifle makers in Pennsylvania, no one town manufactured all of them. Sawyer, in his list of American Rifle Makers Previous to 1783, mentions rifle makers in the Pennsylvania towns of Lancaster, Allentown, Easton, Reading, and Philadelphia, as well as Newmarket, Virginia; Harrodsburg, Kentucky; and Charlottesville, North Carolina. In 1768, Sir William Johnson induced several Lancaster gunsmiths to migrate to New York to the towns of Schenectady, Esopus, Onondaga, Johnson, and Canajoharie. By 1775, there were rifle shops also in Baltimore, Alexandria, Winchester, Richmond, Camden, Salisbury, and Augusta; so that, although Lancaster did for a time hold practically a monopoly on the manufacture of Pennsylvania rifles, it seems hardly fair to exclude all of these other names.

F. P. L. Mills.

Ann Arbor.

Editor:

Mr. Mills is entirely right about the early model French musket used by American Colonial soldiers. How this error occurred I cannot imagine, because I was clearly aware of the fact that the musket was the Charleville and that there was no Charleroi musket so far as I knew. I saw the proof prior to the original publication of the article (in the "Michigan Alumnus Quarterly."—ED.), but if the word Charleroi was used there instead of Charleville, I failed to notice it.

As to whether the first lightweight American-designed rifle should be called a Pennsylvania rifle or a Lancaster rifle, I can hardly say. It was, and still is, my belief that the design was originated at Lancaster. I knew, of course, that the manufacture spread very rapidly. But it seemed to me more proper to place the design in a town rather than a state, so I used the word Lancaster. That is my only interest in it. If anyone wants to change it to Pennsylvania, I have no objection.

Henry W. Miller.

THE SULLIVAN LAW AGAIN

Brooklyn, New York.

Editor:

I am a serviceman, 19 years old, serving with the Navy. While on leave this past week I applied for a pistol permit as required by my State. I expect to be sent overseas shortly and, like many other sailors and soldiers, would like to bring home relics in the form of small arms. Upon applying for the permit, I was met by a solid wall of red tape. I was told that you must have a pistol before a permit is granted, and that before you can purchase a pistol, you must have a permit. To top that off, if a pistol is brought into New York from another State where a license is not required, or from overseas, you may be arrested for violating the Sullivan Act of 1897 and 1906. Police headquarters referred me to my precinct station house for further information.

At the precinct police station I was informed that I could not be granted a license for several reasons, among them being that I am too young to know enough about firearms, and that the precinct commander does not believe that a person under 21 should be granted a license. To this I replied that if I am old enough to bear arms for my country, I should be old enough to have a handgun of my own. Aside from the fact that I am a serviceman, I ought to know how to handle weapons properly. I am, and have been for five years, a member of the NRA.

I was also informed that the precinct commander feels that there are entirely too many pistols in the precinct at the present time, and that if the commander feels that way, he can reject an application at his discretion. I asked if target shooting and collecting were good excuses for requesting a permit. I was told, "Collect something else!" The precinct commander feels that target shooting is unnecessary for civilians, and if I do want to shoot pistols, to go to some range.

I do not believe that any set of laws should allow one man or group of men, not elected by the people, to interpret and use them according to his or their whims or ideas. It is next to impossible for a law-abiding citizen interested in small arms to obtain a permit when the Sullivan law is interpreted in such a manner by people who care little about the pleasure and enjoyment of those who risk their lives in order to safeguard them, by people who either care not or fail to realize that the target shooter of five years ago was the man who won Tarawa, Guadalcanal, Normandy, and Japan, for our cause.

The law states that at the age of sixteen we may be granted pistol permits and become of age for some military duty (Merchant Marine). Many have given their lives before they were even eighteen; yet we, in New York, are still denied the Constitutional right "to own and bear arms."

Kenneth B. Grayson, S. 1/c RT.

REQUESTS REPRINTS

Springfield, Massachusetts.

Editor:

What are the chances of having Page 16 of the September issue reprinted on paper suitable for framing? I would like a copy to display on my office wall and another in my home. I also know of several other places where I would like to see it displayed; particularly, in the headquarters of the American Legion Post, of which I am a member. In fact, it should have a place in every American Legion and Veterans of Foreign Wars post headquarters, and also where it can be seen by every citizen of the United States.

Guy H. Robinson.

In response to many requests, two hundred reprints of this page have been prepared. They are yours for the asking—while they last.—EDITOR.

SUGGESTS FIRING CHANGES

Victoria, British Columbia.

Editor:

Note considerable discussion in the RIFLEMAN re postwar changes in small-bore shooting. Undoubtedly they are badly needed. Slow-fire prone shooting has little practical value in the game fields, or battlefields either, for that matter.

Have done a bit of pistol shooting, and mulling over the problem have thought of the following:

Three-position match: Ten shots prone, Slow Fire; ten shots sitting or kneeling, Timed Fire; ten shots offhand, Rapid Fire. Timing similar to pistol course.

The above makes possible three positions and three rates of fire without an excessive number of shots overall, and without having to cut down to five shots per stage.

On shots taken prone in the field, there is usually plenty of time, hence Slow Fire prone.

On sitting shots, very often the game stops for a moment, long enough for the shooter to quickly assume a sitting position for added steadiness, yet the shot must be squeezed off fairly quickly, as game may move on at any moment. Therefore, sitting (or kneeling) Timed Fire.

Offhand shots are usually on game moving or about to disappear, and the ability to shoot with speed and accuracy is all-important, hence offhand Rapid.

Possibly the above would be of interest.

Anton Hansen.

INTERNATIONAL MATCH

Italy.

Dear Frank:

An International Team Match was fired, May 27, 1945, on the Italian range just outside Rome. The range has twenty covered firing points, with a safety arrangement of several walls so that no shots are fired off the range.

The firing points were typical Italian. For the prone position, there is a board platform about three feet wide by seven feet long, on a line with the target and having an incline of about one foot. There is a board at the rear for the feet, so that the shooter will not slide off. It is extremely difficult for a shooter accustomed to having his body at an angle with the line of fire to use this position. For sitting or kneeling, one raises the forward portion of the prone-position platform (which is hinged near the middle) and uses another platform about three by three and a half feet. There is barely room enough for a large man. For offhand shooting, a tall man has difficulty shooting under the roof. However, there are several points that have a trap-door arrangement which allows the tall shooter to fire from a pit. The range, custom-made for the Italian shooters who are generally quite short, was quite a handicap to the Americans.

The course called for five shots Slow Fire from each position (prone, sitting or kneeling, and standing) on the 200-meter target. Six sighters were allowed. As many hits as could be made in thirty seconds on a target comparable to our "D" target scored one point per hit. This target is green on a buff background and represents a man in the kneeling position. It is higher than our "D" but not as wide and has about the same area.

The Italians' "A" team took first place with a team score of 306. America's "D" team was second with 302. Of the other twenty teams competing, Italian teams placed third, fourth, sixth, and thirteenth; other American teams placed seventh, eighth, and ninth; South Africa placed fifth, fourteenth, fifteenth, sixteenth, and seventeenth; Switzerland placed tenth; England placed eleventh, twelfth, eighteenth, nineteenth, twentieth, twenty-first, and twenty-second.

The Italian teams used their caliber 6.5 mm. Model 91 service rifle having a long barrel. They do not use the sling in any position. The rifle proved to be very effective at both Slow and Rapid Fire. Some Italians had their third five-shot clip loaded before the targets went down.

The Americans used issue .30 caliber Model 1903 rifles, many of which were made before World War I and were not in the best of condition. The American "D" Team was fortunate in having improvised shooting coats and a 61 mm. B. & L. scope.

The English used various models of their caliber .303 Service Rifle, most of which had adjustable aperture rear sights. One team of snipers had rifles with scope mounts and cheek pieces added to the stock. They were not permitted to use the scopes in the match.

The South African teams used the caliber .303 Service Rifle with a Parker-Hale rear sight similar to the 37 Remington. This proved to be a fine combination.

The team of Swiss civilians was handicapped by not having their own fine service rifle. They borrowed some Model 98 Mauser rifles from the Swiss Guard at Vatican City.

The American "D" team, from Naples, was coached by the well-known Californian, Capt. Pete Peters. Sullivan, of that team, has been a member of the Illinois State Civilian Team. The American "A," "B," and "C" Teams were made up in the Rome area. Sgt. W. M. Hanna was a member of the Infantry Team in '35 and '36. Major Milner was a member of the Georgia National Guard Team. Moore was a member of the Vermont State Civilian Team.

Larry Moore.

(From a letter to Frank Kahrs.—Editor.)

IDEA FOR ANNUAL MEMBERS

Louisville, Kentucky.

Editor:

The enclosed photograph might be of interest to annual members. Almost every member I know sews his brassards on a jacket the conventional way, using the whole felt emblem. I use just one whole emblem and trim the dates off the preceding years. The ones that are trimmed should be cut so as to fit the one below. In this way they can be "stacked" and will not take so much room on the jacket.

Robert E. Hall.

AMERICAN WILDLIFE SECRETARY

C. R. Gutermuth, of Indianapolis, Indiana, has been appointed Executive Secretary of the American Wildlife Institute, replacing J. Paul Miller, who resigned last February.

Mr. Gutermuth has been active in conservation affairs for many years, having served nearly ten years as Director of Education and Director of Fish and Game in the Indiana Department of Conservation. Before entering conservation work, he was for twelve years Assistant Cashier of the St. Joseph Valley Bank, in Elkhart, Indiana.

SPORTSMAN'S HELPER

For the sportsman who has found his joy of bagging a brace of ducks tempered by the knowledge that he has to pluck them, it should be consoling to learn that an easy method of picking has been discovered that reduces the time from half an hour to eight minutes a bird.

Instead of being picked dry, the bird is first dipped into a pot of boiling water to which has been added a little fluid called Sovasuds. About three ounces of Sovasuds are used with each gallon of water. After that there's nothing to it—the normally tough feathers almost fall out.

According to Socony-Vacuum Oil Company, Inc., manufacturers of the liquid, Sovasuds "makes the water wetter," enabling it to penetrate the oily feathers and to soften the horny substance of the embedded quills. It also softens the horny barbs that surround the quills so that they bend when the feathers are pulled instead of sticking in the flesh. Chickens and other birds can be similarly dipped and plucked in less time, it is said.

Actually, Sovasuds is marketed by Socony-Vacuum as an aid in washing automobiles.

WASHINGTON REPORT

By Ernest McIver

It will be the fall of 1946 before the stock of hunting and shooting supplies and equipment gets back to normal. All dealers will have a few items by Christmas, but it will be well after the first of the year before you will see any noticeable change in the situation.

Ammunition will be no more plentiful than last year. Shot shells are being produced first, then rifle cartridges, trap and skeet loads, and police ammunition. Manufacture of new firearms is slow, with only a few .22 target pistols being seen on the market this year.

All government regulations on firearms and ammunition were expected to be off by the first of November instead of by January first as planned several weeks ago. But a strike in one of the largest shell factories has not helped any.

The Office of Price Administration has set prices on rifles and shotguns at approximately the same as 1942 levels. As for revolvers, the industry advisory committee is trying to work out a deal for higher prices. The OPA is willing to grant an increase of about 9 per cent, to be absorbed by the dealer. One large manufacturer says that is agreeable. Others say they must have a much greater increase. Chances are that not more than 9 per cent will be allowed.

Surplus jeeps will soon be offered for sale by the government. They are ideal for carrying camping and hunting equipment . . . and for bringing home game.

In Congress, a bill now before the House would amend the Pittman-Robertson Act. Funds derived from the tax on ammunition and firearms would be distributed more equally to the States for use in wildlife restoration projects. Rep. A. Willis Robertson (D-Va.), one of the original sponsors of the act, is plugging for the new amendment. A hearing is expected later in the year before the House Committee on Agriculture.

Some disposition will probably be made soon of the six and a half million acres of land taken over by the War Department for wartime military reservations. The Fish and Wildlife Service loaned 1,800,000 acres, and that will be returned, but there is no plan for the use of the rest of the land. It might be well for the States to see to it that at least part of this excess land is made available for use as wildlife areas. Returning servicemen have a greater interest in hunting and shooting, so larger areas will have to be provided for the sport in all sections of the country.

A bill introduced in the House by Rep. Charles L. Gerlach (R-Pa.) would safeguard wildlife in construction projects undertaken by the government. It has been referred to the Agricultural Committee, but no date has been set for a hearing. Sen. Guy Cordon (R-Ore.) is the author of a similar measure in the Senate.

One thing this country needs is a greater number of "duck hotels." Dr. Ira N. Gabrielson, director of the Fish and Wildlife Service, has made this report to Interior Secretary Ickes. The hundred million waterfowl now streaming back from northern nesting grounds can be considered a ceiling on duck population unless something is done about building more "duck hotels."

There are now four times as many ducks as there were ten years ago. Dr. Gabrielson says the reason for such a gratifying and unprecedented increase is due largely to "duck hotels." They are places where hungry and tired ducks may rest without fear of being riddled by shot. There are 285 of these wildlife safety zones, located all the way from Alaska to the Florida keys, and from New England to California. These outdoor hostelries beat the duck depression of a generation ago. Today they are main reasons why waterfowl hunting regulations are liberal, and why the shooting season is 50 days longer.

INVITATION

On October fifteenth the Garden State (New Jersey) Rifle League will open their tenth year of four-position indoor competition, using fifty-foot and seventy-five-foot ranges, firing five shots in each of the four positions, with a time limit of thirty minutes. Coaching and spotting permitted. Ten men constitute a team; five high scores to count. Teams visit each other weekly. Prizes consist of individual high score for each team, and three individual high league score prizes. Prizes are offered for the three high teams, and a prize for second division high team. Closing league banquet, et cetera. The League has a membership of sixteen northern New Jersey teams and would like to extend an invitation to others to join us. A copy of the constitution and by-laws may be had by writing E. R. Case, Manager, 281 Main Street, East Rutherford, N. J.

SEA-GOING RANGE

Between European invasions, U. S. Coast Guardsmen aboard the attack transport U. S. S. *Samuel Chase* polished up their marksmanship on a "sea-going rifle range."

The range was built in the troop magazines of the 16,000-ton vessel at Mers-El-Kebir shortly before the Sicilian invasion. Chief Gunner's Mate Nicholas Tannaci of Chicago, originator of the sea-going rifle range, got his idea while watching several men killing time popping away at tin cans thrown out toward sea.

Realizing that the 65-foot-long troop magazines, used to stow demolitions and ammunition, were then empty, Tannaci installed a 50-foot range for the four Winchester Model 52 target rifles aboard the *Chase*. Tannaci made a backstop of lumber and behind it placed a piece of one-quarter-inch armor plate at the proper angle.

The entire complement of 400 combat crewmen took part in the preinvasion small-bore rifle matches, which were so successful that marksmen of the *Chase* competed with shooters from other vessels.

The whereabouts of the U. S. S. *Chase* are a military secret today but it is understood that the sea-going rifle range is still in operation, spelling out the fate of plenty of Japs and giving a preview of one of the major sports to which military and naval personnel are looking forward in the postwar small-bore target shooting.

Postwar dry-land shooters don't need Tannaci's ingenuity in building a rifle range and they might well start looking around now for range sites.—*Outdoor Writers Assn. of America.*

SEVENTEEN SHOTS—12 JAPS

Captain Robert M. Calhoon, crack-shot Los Angeles police captain in civilian life, said today he fired his rifle seventeen times in the past year and killed twelve Japanese.

He used three rounds on the first Nipponese on New Britain. On Luzon Island he used four rounds, including only one miss, to kill a Jap at 800 yards.

The other Japs, killed on Luzon, Panay, and Negros islands, were brought down with one round each.—*Los Angeles Times.*

CROSSBOW CHAMPION

Col. Carl R. Adams of the 17 AAA Group has won the crossbow shooting championship of Eastern Switzerland. His score was forty-three out of a possible fifty on the crossbow range at St. Gallen.

Colonel Adams, an expert shot with rifle and pistol, was taking a GI conducted tour of Switzerland which brought him to St. Gallen on the day of the annual fete in honor of William Tell, the Swiss national hero.—*Army and Navy Journal.*

RECOILLESS RIFLES IN ACTION

With 6th Army, on Luzon—Infantrymen of the 43rd Infantry Division, among the first to use in combat the Army's new 57 mm. and 75 mm. recoilless rifles, have handed down their verdict. The new weapons, they agree, are "colossal."

Men of the 43rd Division's 103rd Regiment used the new guns on Luzon. Sgt. John Latham was in charge of the group. He gave a vivid description of the guns' first blasts at the enemy.

"We had two days of training on the two new guns," he said. "Then we were called into action. It was near the end of the Ipodam campaign and a rifle company was in a tough spot. The company was held up by heavy machine-gun fire. The terrain was so bad it was impossible to move artillery pieces there. The bazooka didn't have the range for the job to be done. The .50 caliber didn't have the power.

"We had to climb a muddy, slippery hill to reach the company. It took us two hours to make less than a mile. When we got there the company was dug in and the Japs were plastering the area with artillery fire. If the infantrymen attempted to move the Nips would open up with their machine guns.

"We assembled the 75 mm. in a few minutes, and we got our targets—several grass huts about 1,400 yards away. We got three direct hits in the first three shots. We fired five more rounds, and when we got done all we could see was a lot of grass. When the company moved forward there were dead Japs all over the place."

—*Army Times*—August 4, 1945.

VICTORY CLOTHING COLLECTION

President Truman says, "Without adequate clothing and other necessities of life to sustain victims of war on the long road to rehabilitation, there can be no peace."

Support the United National Clothing Collection of serviceable used clothes, shoes, and bedding for the peoples of liberated lands.

COMBAT PISTOLMAN

With the 17th Airborne Division, in Germany. —Pfc. Marvin "Baldy" Baker, 20, gliderman, of Minneapolis, had a rough landing in Germany after his glider crossed the Rhine through the flak and into the field designated as their landing zone. The glider crashed through a fence and lost the landing wheels and then nosed into the ground for a sudden stop. Baker broke out of the glider and hit the earth. At the same time machine-gun fire splattered about him and one Jerry threw a grenade.

The glider had landed on an 88 artillery position so close that the gunners were unable to fire at it. Unharmed, Baker drew his pistol. One Jerry made a break for it and went forward toward the gun. His sprint ended in a tie with a slug from Baker's pistol.

Another Jerry started heaving grenades. Baker flipped several grenades and the pitchers' duel ended with another out for Jerry. Another Nazi peeped over the top of the 88 and saw his last gliderman. Baker's pistol said so.

Baker slipped up to the gun itself and dropped a white phosphorous grenade down the barrel, ending forever its usefulness. Taking stock, he noted that machine-gun bullets had pierced both of the side pockets on his trousers.—*Army Times.*

"FARMERS—AND LIARS"

"Plenty of Ammunition for farmers and damned liars." So read a sign in a disgusted Baltimore merchant's window last year, according to the *Rally Sheet* of the League of Maryland Sportsmen. "Like so many other ill-handled regulations, getting shotgun shells this season calls for downright perjury in that a signed statement is called for setting you up as a farmer or restricting the shells for predator control," says the *Rally Sheet.*

The League of Maryland Sportsmen has put it right up to the War Production Board in a Resolution requesting more equitable distribution of ammunition:

"WHEREAS, There is an indication that the Federal officials working under the War Production Board are contemplating a distribution of available shotgun shells and other sporting ammunition in the same or a similar manner as prevailed in 1944, and

"WHEREAS, It is the honest belief of the League of Maryland Sportsmen and its fifty affiliated organizations of sportsmen that the continued use of the present method of distributing such sporting ammunition can only result in the breaking down of decency in sportsmanship and in slowly undermining the morals and morale of the gunnermen of America, and

"WHEREAS, We believe that recreational gunning as practiced in America is sufficiently worthy in its own right for consideration at the hands of the War Production Board without the interjection of such subterfuges as predator control and aiding in the meat shortage, therefore,

"BE IT RESOLVED, That the League of Maryland Sportsmen in annual meeting assembled petition the War Production Board to make distribution of such sporting ammunition as is completely compatible with the war effort in the future strictly and wholly upon the merits of recreational gunning as a health and morale builder so that the gunnermen of America may practice their ancient heritage and at the same time retain their self respect, and

"BE IT FURTHER RESOLVED, That a copy of this resolution be sent to the proper officials of the WPB, to Maryland's representatives in the Congress of the United States and to such other officials of the Federal Government as may be deemed proper."

RETIRES

Springfield Armory announces the retirement, October first, of Albert L. Woodworth, after forty-four years of service. Participants in the National Matches at Camp Perry will remember Mr. Woodworth both as a shooter and later as director of the Ordnance repair team, in which latter capacity he became one of the best-known arms experts in the country.

He is as good a shot today as he was as a soldier in the Spanish-American War, and in practically all demonstrations of newly designed weapons, even the competition asked Mr. Woodworth to do the firing.

Many "tall tales" are told of Al's prowess. They tell of the time Springfield Armory won the National Matches over the Marine Corps because Al noticed the change in a flag fluttering in the wind, and had his team change windage immediately, two shots before the Leathernecks adjusted. His calmness under pressure is the outstanding characteristic of most of the stories told about him. Typical is the case where Al was making an accuracy test against time, and a hot shell case was thrown into the sleeve of his shooting coat. Not until after the successful delivery of the required number of bull's-eyes did he stop to have the painful burns treated.

Shooters everywhere will join with General Ramsey, Commanding Officer at Springfield, in the "sincere hope Al Woodworth will have many added years of happiness and good health."

BOOK REVIEW

MY DOG LEMON

RAY P. HOLLAND

This is the kind of little book you will enjoy while riding the train or plane or lazing in front of the fire some chilly night when an early-to-bed schedule has been planned. You'll enjoy it if (a) you really understand gun dogs and the men who love them (b) you are at heart a trader—dog trader, horse trader or any old kind of trader (c) you have a sense of humor.

You won't learn anything about breeding, raising, or training a gun dog from "My Dog Lemon," but you will enjoy many a chuckle and you will not regret your $1.75 *if* you meet the specifications laid down above.—C. B. L.

(86 pages with 10 pen and ink sketches by Wesley Dennis. Cloth, A. S. Barnes & Company, $1.75.)

RETRIEVER GUN DOG

BY WILLIAM F. BROWN

From the point of view of the game hunted, no gun dog is as important as the retriever. The dog that makes a beautiful cast and an impeccable find is only half a dog if he doesn't also find and fetch the kill. A dead bird lost means two birds taken from the game bird supply—the one lost and another one taken to round out a bag limit. The retriever is an important conservation factor. He offers every gunner a specific opportunity for an individual contribution to the conservation of game birds, both upland and migratory.

"Retriever Gun Dogs" is a book for hunters by a hunter. W. F. Brown reviews the field of retrievers and offers valuable advice on the selection and training of these dogs. It reads easily and the information contained in its pages is readily assimilated. The book should encourage more general use of this most important of gun dogs. Every hunter should get his copy and "try it on a dog"—a good retriever dog.—C.M.P., Jr.

(A Countryman Press Book; $3.00, 143 pages, freely illustrated by fine photos. For sale through NRA Book Department.)

THE SHOOTING MOORES

Mr. and Mrs. Robert K. Moore, of Claysville, Pennsylvania, members of the Frazier-Simplex Rifle and Revolver Club, made a family affair of the Eighth Annual Pennsylvania State Small Bore Tournament held September 2nd and 3rd. Mr. Moore won the Class A Championship (Masters and Experts) and the Frank A. Hoppe Memorial Trophy, symbolic of the Pennsylvania State Rifle Championship. Mrs. Moore won the Class B (Sharpshooters and Marksmen) Championship.

The match, sponsored by the Altoona Rifle and Pistol Club, and fired on the Blair County Game, Fish and Forestry "Chief Logan" Range at Riggles Gap, produced some good scores in spite of adverse weather conditions.

Mr. and Mrs. Moore are both hunters as well as target shooters.—*The Washington (Pa.) Observer.*

NEW RECORD

Walter Tomsen of Flushing, New York, is "hot." On August 26, at Shelburne Falls, he equaled the National Record for twenty shots at fifty yards, metallic sights: 200x200 with 19x's. On September 2, at Allentown, he established a new record for twenty shots at 100 yards, metallic sights: 200x200 with 18x's, and equaled twenty shots at fifty yards, any sights: 200x200 with 19x's.

National Record Certificates have been mailed to Tomsen.

EXPLOSIVES LICENSE NO LONGER REQUIRED

The Federal Register, dated October 9, 1945, contains an official announcement, issued by the Bureau of Mines, to the effect that a federal explosives license is no longer required to manufacture, sell, or purchase explosives, including gunpowder. This announcement by the Bureau of Mines is preliminary to repeal of the Federal Explosives Act by Congress, which action is expected at an early date.

TRACER BULLETS MENACE FORESTS

Hunters are being cautioned by forest protectors to make sure that there are no tracer bullets mixed with their ammunition when they take to the woods and fields this fall. Use of such bullets constitutes a serious fire hazard.

NEW MOSSBERG

First Mossberg rifle to be released to the trade is a .22 caliber, seven-shot, bolt-action, clip repeater (Model 44US), named the "Mossberg G.I." in honor of the best-trained, best-shooting servicemen in the world. This is a civilian adaptation of the Mossberg Model 44B, used widely during the war by both the U. S. Army and Navy for training.

Among the features of the new "Mossberg G.I." is an improved peep sight (S100) which is standard equipment. Mossberg developed this sight for the War Department and supplied them in large quantities during the war. It has half-minute "click" adjustments and is hinged to swing out of the way when a telescope sight is mounted.

STOLEN GUNS

One Colt New Service, Serial Number 351,130, caliber .357 Magnum. One High Standard Model B, Serial Number 10544, caliber .22. Stolen from my home during week of Sept. 17 to Sept. 21. Gustave Sparre, 140 Westwood Park Drive, Manoa, Upper Darby, Pennsylvania.

One Colt .32 Auto pistol, Serial Number 435,321. F/O Avery E. Bosket, 68 T.C. Sqd., 433 T.C. Gp., APO 74, % Postmaster, San Francisco, California.

One .32 caliber Colt Automatic Serial Number 432,023; stolen from car in San Francisco, September 9, 1943. Reward. John Bresnan, 1534 Shrader Street, San Francisco, California.

One Colt Super .38 Auto, Serial Number 33398. John Kneebone, Box 1172, Anchorage, Alaska.

One .38 caliber "Commando" revolver, four-inch barrel, Serial Number 19820. Monsanto Rifle and Pistol Club, Anniston, Alabama.

COMING EVENTS

California, November 9, December 14—Tamalpais Gallery Pistol at Alto. Francis Wadman, Route 1, Box 854, Mill Valley.

November 18, December 16—San Francisco Police Monthly Pistol. E. J. Dutil, 324 16th Avenue, San Francisco.

November 18—Southern California Pistol at Glendale. Jack E. Cornell, 662 Arden Avenue, Glendale.

Florida, November 10-11—Florida West Coast Small Bore. L. W. Abrams, 705 Prospect Avenue, Clearwater.

Louisiana, November 24-25—Third Annual Southern Louisiana Pistol Tournament. J. A. Moroney, 1123 Second Avenue, New Orleans.

Albert B. MacMullen

Albert B. MacMullen, fifty-four, for many years Pittsburgh sales representative for the Western Cartridge Company and Winchester Repeating Arms Company, well known to all the "Men of Perry," died suddenly from a heart attack September first as he was about to leave his home in Latrobe, Pennsylvania, for the State Match at Altoona. He had taken a job in a war plant at Latrobe for the duration after the Government suspended the sale of guns and ammunition, but kept up his interest in shooting by competing in the rifle matches in the Pittsburgh territory.

Harold T. Rogers

Mr. Harold T. Rogers was killed in an explosion in connection with his work for a petroleum engineering concern.

Mr. Rogers was a Life Member of the NRA, was a junior instructor, and during the recent war served as a sergeant in the Signal Corps of the Army. He is survived by his wife and ten-month old daughter.

STATEMENT OF THE OWNERSHIP, MANAGEMENT, CIRCULATION, ETC., REQUIRED BY THE ACTS OF CONGRESS OF AUGUST 24, 1912, AND MARCH 3, 1933

Of THE AMERICAN RIFLEMAN, published monthly at Washington, D. C., for October, 1945.

District of Columbia, ss:

Before me, a notary public, in and for the State and county aforesaid, personally appeared C. B. Lister, who, having been duly sworn according to law, deposes and says that he is the Editor of THE AMERICAN RIFLEMAN, and that the following is, to the best of his knowledge and belief, a true statement of the ownership, management (and if a daily paper, the circulation), etc., of the aforesaid publication for the date shown in the above caption, required by the Act of August 24, 1912, as amended by the Act of March 3, 1933, embodied in section 537, Postal Laws and Regulations, printed on the reverse of this form, to wit:

1. That the names and addresses of the publisher, editor, managing editor, and business managers are:

Publisher: National Rifle Association of America, 1600 Rhode Island Ave., Washington 6, D. C.

Editor: C. B. Lister, 1600 Rhode Island Ave., Washington 6, D. C.

Managing Editor: E. B. Mann, 1600 Rhode Island Ave., Washington 6, D. C.

Business Managers: Executive Committee, National Rifle Association of America, 1600 Rhode Island Ave., Washington 6, D. C.

2. That the owner is: (If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding one per cent or more of total amount of stock. If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a firm, company, or other unincorporated concern, its name and address, as well as those of each individual member, must be given.)

National Rifle Association of America. 1600 Rhode Island Ave., Washington 6, D. C. No stockholders.

3. That the known bondholders, mortgagees, and other security holders owning or holding 1 per cent or more of total amount of bonds, mortgages, or other securities are: (If there are none, so state.) None.

4. That the two paragraphs next above, giving the names of the owners, stockholders, and security holders, if any, contain not only the list of stockholders and security holders as they appear upon the books of the company but also, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting, is given; also that the said two paragraphs contain statements embracing affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustees, hold stock and securities in a capacity other than that of a bona fide owner; and this affiant has no reason to believe that any other person, association, or corporation has any interest direct or indirect in the said stock, bonds, or other securities than as so stated by him.

5. That the average number of copies of each issue of this publication sold or distributed, through the mails or otherwise, to paid subscribers during the twelve months preceding the date shown above is . . . (This information is required from daily publications only.)

C. B. LISTER, *Editor.*

Sworn to and subscribed before me this 4th day of October, 1945.

LOUIS O. BRADLEY,
Notary Public.

(SEAL)

My commission expires May 14, 1946.

DOPE BAG

☆ ☆ ☆

Conducted by F. C. NESS

THIS MONTH:

Combustion Theory · Jap Rifles and Chambers · Rust Test Check · Sub-Zero Oils · Pistol Accuracy Job · Pedersen Rifle Load · Gun Decorations · Bullet Metals · Kinks and Loads · Letters · Trade Dope

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NEW THEORY? It has long been known that under certain conditions a rifle knocks much like an automobile engine, and thus wastes much power while creating dangerous pressure peaks. Have we arrived at all of the causes of this knock? It is variously attributed to rebounding pressure waves, powder surges, etc. But have we considered that the forward portion of the powder charge is probably slammed forward against the base of the bullet by the explosion of the first portion of the powder to ignite, with pressures sufficient to crush the grains? This crushed powder could then burn rapidly enough to give a pressure peak much sooner than desired.

Why can't we take advantage of this crushing action to still further control the progressive burning of powder? Perhaps we could make use of duplex or multiplex loading by using powders of different hardness or by causing a soft slow-burning exterior layer of powder to crush off of a hard fast-burning interior pellet; the timing being carefully controlled.

Mr. E. Baden Powell mentions the fact that "modern actions have blown up with reduced loads." Two possible explanations occur to the writer that he has not previously heard mentioned: Dual (or multiple) ignition due to reflection of heat from the inside of the cartridge case, and turbulence of the powder charge.

One of the first things that we found out about knocking in an automobile engine was that when the spark plug ignited the mixture, and it began to burn, that radiant heat from this burning area was focused by the cylinder walls onto an area on the opposite side of the cylinder. A second ignition then took place where the rays were focused. The two fires finally met, and then occurred the knock. This was at first controlled to some extent simply by the addition of a dye to the fuel.

The reflection theory seemed to justify some experiments. Some cases with dull blackened interiors were loaded with a light charge of DuPont bulk shotgun smokeless behind a 90-grain cast bullet. A number of identical cases were polished bright on the inside and then loaded with the same load. The loads in the blackened cases chronographed 1535 f.s. Those in the polished cases chronographed 1450 f.s. The extreme variations were 40 f.s. and 80 f.s., respectively.

The significant thing here is that the velocities were different. There was no equipment at hand to allow chamber pressures to be taken, but the writer would not be surprised to learn that the load showing the lower velocity developed the higher pressure. It will also be noticed that the velocities obtained with the polished cases were more erratic than those obtained with the dull cases. This was probably due to the different positions assumed by the powder. No attempt was made to hold the rifle level just prior to firing and jar it to cause the powder to become evenly distributed along the bottom of the case.

Now let's have a look at turbulence. In filled or nearly filled cases very little turbulence is possible until the bullet moves. But in half-filled cases turbulence may assume any proportions.

If a small portion of the powder charge were ignited, and then as it began to burn at explosive temperatures and with explosive pressures, if it were to be suddenly mixed throughout the rest of the charge,—things would happen. With a partially filled cartridge case this is possible. Especially so when we consider that the rifle may be turned in any conceivable direction just before being fired. The powder charge might be lying forward, rearward, or evenly distributed along the bottom of the case. Any one of these positions might be particularly conducive to the proper timing of ignition and turbulence to produce an unexpected pressure peak.

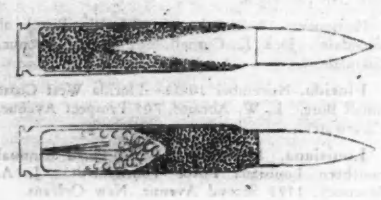
Then let us realize that the powder could be blown into some such pattern as that shown in Fig. 1. If the primer or the initial part of the explosion can produce a vortex, this can happen. Here we have the familiar hollow explosive charge (now some 20 years old) that has been used so successfully to blow holes in tank armor. If this condition obtains, the breech is in line for a terrific blasting.

Now, why can't we simply aim this hollow charge in the opposite direction,—at the base of the bullet as in Fig. 2, and let it blow the bullet out the bore with its strongly directed jet? Some means would, of course, have to be found to hold the powder in place. But this does not seem at all impossible. It would seem to the writer that ignition should take place inside the cavity in this type of charge. It would also probably be necessary to line the inside of the cavity with a thin layer of fast burning powder to insure uniform quick ignition of the entire cavity. The progress of burning would then likely be such as to maintain the general proportions of the cavity until the powder were consumed.—DUERSON PREWITT.

REVOLVER LOADS. One of the nicest loads I have found for general shooting in my .38-44 S. & W. Outdoorsman is the Hensley No. 48 .357 Magnum bullet, sized .358 inch and crimped in the top groove, with 3.5 grains No. 6 pistol powder, measured. I have used the Bond-Resser 150-grain bullet, but like my two-cavity Hensley mold and bullet better. I have found a weighed charge of 6.0 grains Unique a little too hot for the 150-grain bullet in this heavyweight .38 Special revolver. A powerful and less heavy load is 13.5 grains No. 2400 with the Keith 160-grain H.P. bullet and No. 1½ primers in Remington .38-44 cases. The extraction is easier and fewer cases are split.

In the .32-20, my pet load is 2¼ grains Bullseye and the regular Ideal 100-grain bullet. It is mild and accurate at 25 yards indoors in my 5-inch S. & W. Military & Police revolver, and a friend likes it in his Model 27 Marlin rifle for small-game shooting. It kills well without too much destruction.—THOMAS M. BLACKEMORE.

Figure 2 (Top) and Figure 1 (Bottom)



AMERICAN VERSUS JAP. On page 15 of THE AMERICAN RIFLEMAN for June, 1945 is a table in which we give our measurements of the Japanese rifle ammunition in 6.5 and 7.7 mm. caliber, and those of American cartridges that happen to come the nearest to being adaptable. Walter Smith's article (same page) admonishes our readers against practicing such adaptions or conversions of Japanese rifles. Also, after looking into the matter, the gunsmith firm of Hammer & Gipson decided against doing any conversion work on Japanese rifles. The chamber dimensions they found in sample Japanese rifles were as follows:

7.7 mm. Body length, 1.700; neck length, .360; shoulder taper, 28 degrees; shoulder diameter, .434; head diameter, .482; neck diameter, .346; mouth diameter, .342.

6.5 mm. Body length, 1.380; neck length, .781; shoulder taper, 21 degrees; shoulder diameter, .422; head diameter, .462; neck diameter, .296; neck at shoulder juncture, .298.

ON JAPANESE RIFLES. We had several of the Jap 6.5-mm rifles sent in for conversion to the 6.5-mm Mannlicher caliber, and have found them to be so poorly made and so far from American standards that we do not consider them worth the labor involved.

The Jap chamber is much too large at the rear and the bolt face would have to be bushed and the extractor altered. The bore and groove are oversize, and the throat extremely long. The workmanship is very poor. The bore is .258 inch and the groove .2668. We didn't check the twist.

The 7.7 mm (short) Jap rifle has such chamber dimensions that it cannot be converted to anything smaller than the .300 Magnum, and it's too weak for anything like that. The groove is .3168 inch and the bore .301, with a twist of 9½ inches. The grooves are of four-leaf-clover type, very slightly flat at the land crest and getting deeper at the groove center. None of our factory bullets would seal the bore without an awful lot of upset. The workmanship is even worse on this one, showing great haste in production, poor tooling, and crude designing. The Japs have done a remarkably poor job of aping on this one, and we have written of it too.—VERNOR GIPSON.

RUST TEST SUGGESTION. Because we use mechanically cleaned and surface-abraded steel blades and a salt solution in a Monel metal tank, Gidge Gandy suggested the possibility that an electrolysis complication might be involved in our results. Such a complication would not be serious, because ours is a group comparison method, with many subjects checked against a basic untreated subject in the same solution at the same time. However, our results indicate that any electrolysis effect was minor because those subjects near the tank walls showed no abnormal reaction, and many of them began rusting at or above the surface of the solution, whereas the effect of electrolysis would have been manifested first on the submerged parts of the steel. So much for theory.

For a practical check, we tried some fresh solution in a glass jar for a repeat test of three samples. As in the metal tank, these were suspended on linen thread from a wooden bar across the top of the jar. In the tank, subject No. 7 had developed several small spots above the solution on the 14th and 16th days, while the first spot on the submerged part did not appear until the 25th day. By the 43rd day, 50 per cent of the exposed top was etched and blackened. In

the jar, a spot started at the surface on the first day and another on the bottom edge on the 4th day. The exposed top started to rust on the 10th day. After 57 days, 97 per cent of the surface was still clear, with a blackened area at the surface line. Subject No. 8 never did begin rusting on its submerged part in the tank, even after 43 days on test. The top started on the 10th day, and all the spots joined and formed one mass of rust by the 29th day. After 43 days, about 10 percent of the top was etched. In the jar, the bottom started to rust on the 4th day and advanced steadily. The top started on the 21st day. After 57 days on test, all the submerged part was rusted, with one large spot above the solution. Only 45 per cent of the total surface remained clear of the black discoloration and etching. Subject No. 9 also started on top, in the tank, on the 14th and 16th days. No spot appeared on the bottom until the 25th day. After 43 days on test, there was just a little advancement shown on both top and bottom.

The fresh solution was evidently more potent than the old solution, in which 80 subjects had been tested, although both were controlled at 97 per cent strength by salinometer check. The tank test was part of a regular group started September 26, 1944, while the check test in the glass jar was started January 2, 1945. By the greater degree of top rusting in the tank absence of electrolysis is indicated, and the greater degree of bottom rusting in the jar, of nonconducting glass, cannot very well be charged to any adverse effect of metal walls. All rusting is an electrochemical action.

COLD CLIMATE LUBRICANT. An interesing feature of Gun Lubricant & Cleaner, by Continental Co., Inc., of Seattle, Wash., is its design for adequate viscosity at high temperatures with a pour-point down to 40 degrees below zero. That is a considerable range, and we have no means for checking the maker's claim. We could only check its inhibiting quality, under severe rusting conditions. The steel subject started many spots on the bottom the 2nd day on test, and on the top the 6th day. The advance was steady, covering the bottom in 13 days. The spots on top spread more slowly, covering 75 per cent of the surface in 74 days. Complete coverage required 111 days, leaving the entire surface blackened but with none of the pits rusted through the thin blade.

The only comparable product included in the same test was a transformer oil, containing 2½ per cent of an antirust solution, that was designed for adequate viscosity at 100 degrees F. with a low pour-point, or 40 degrees below zero. Its subject steel started on the bottom the 6th day on test and spread steadily. The top did not start until the 50th day. All of the bottom and 50 per cent of the top surface was covered in 95 days. After 111 days on test, all the top was blackened and some of the bottom pits were deep but not through the blade.

USES SMALL PISTOL PRIMERS. I have been using pistol primers in rifles for several years with good results. These include the .22 Hornet, .22 Lovell, .32-20, and .25-20 S.S. and Repeater. My very accurate Hornet load is the No. 1½ R.A. primer and 11.1 grains of No. 4227 behind the Speer-Hornady 40-grain bullet. I use a grain less of No. 2400, or about 10.3 grains. In both .25-20 rifles I use the same pistol primers with 9.0 grains No. 2400 and 74- to 86-grain gas-check bullets. With the heavier bullet it is better when cut to 8.0 grains. In the Improved Zipper with large-size pistol primers, No. 2½, my most accurate load is 25.0 grains No. 3031 behind the Sisk 42-grain Wartime or Milo Hill bullets. Mine has a 32 Winchester barrel. It will not handle No. 4227 at all. I believe it is simply a matter of balancing the powder charge to the primers used.—Harry Parmenter.

Brown's Bull Pup

VARMINTER PUP. Mr. Gebby did a fine job of shortening my Oberndorf Mauser action for the .22 Varminter cartridge and fitting, chambering, and turning the Buhmiller barrel blank to dimensions of 1-3/16 x 1-3/16 x 26 inches.

Starting work on the rifle over a year ago, I received the barrel and action from Mr. Gebby last Xmas. The trigger mechanism was built in my spare time, using the Model 70 Winchester trigger and rear assembly. I altered the magazine to 3-shot capacity and made my own scope mounts. The rear mount is fitted to a radius-cut dovetail slot in the base, which gives a tight fit at all times. Scope is a 4X Hensoldt Dialyt with two Lee dots, center one subtending 3½ inches at 100 yards and the lower one 1¼ inches. Center of scope is just 2⅛ inches above center of bore. I use the smaller dot for crow shooting and, when the rifle is sighted so point of impact is approximately ½ inch high at 100 yards, the 200-yard point of impact is ½ inch low. The large center dot will be used for deer hunting this Fall.

The rifle is just 34¼ inches long overall and weighs 13¼ lbs., complete with sling. I made the stock from the fanciest piece of Oregon myrtle I could find, and it turned out so well that I no longer feel the pain in my pocketbook from the cost of the wood.—L. H. Brown.

HOMEMADE ACCURACY JOB. I recently fell into a nearly new, issue, 1911 A-1, .45 auto made by Ithaca. It was so new that I took pity on it and took it in. Using recent issue ammo, it would not reliably hit the paper at 25 yards.

Remembering a Rifleman in which Jesse Harpe described an accuracy job on this model, I dug the article out and followed the instructions almost to the letter. I would have had Berdon do the job, but I needed the experience and the money. I left the pull, etc., alone as it needed no improvement.

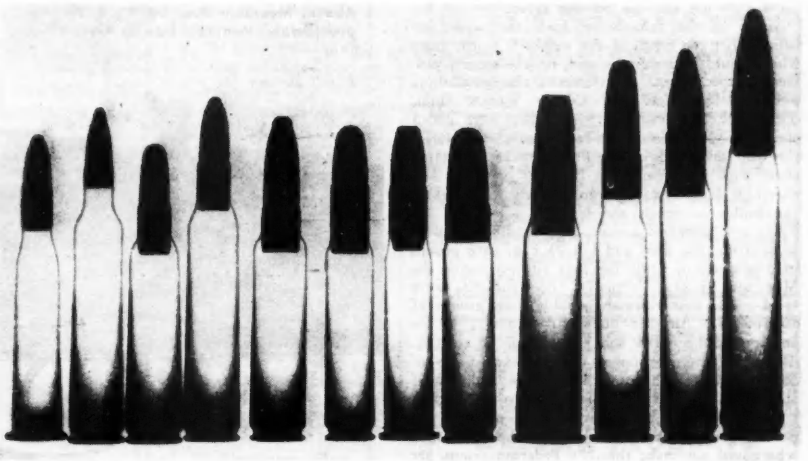
Instead of a new bushing, I had the old one chrome-plated .020 inch all over, and ground it down with a tool-post grinder and dental burrs. I used the same grinder to properly fit the barrel to the bushing, per Mr. Harpe. I made a new link and took the barrel's end play out by means of welding a small amount on the barrel extension. The slide was tightened up, per the instructions, but this proved the toughest part of the job. It needed a very large vise and lots of pressure to move the slide as he said to, but it did finally work.

To make a long story short, the gun is now quite as accurate as any of my large-caliber handguns. I must include my opinion that this pattern gun is awfully hard for me to shoot well. It takes a special method of handling to get consistent results, for me anyway.—E. M. Farr.

MAKING THE .276-P SHOOT. The .276 Pederson cartridge has interested riflemen since its production by Frankford Arsenal in 1929. The by-passing of it for the old and tried .30-06 for use in the Garand rifle, forced it into the background temporarily. When the War Department made its stock of .276 Pederson ammunition available for sale to NRA members some few years back, many of us who were interested in that cartridge

X-Ray of Popular Cartridges

Left to Right: .22 Savage 70-Grain S.P., .220 Swift 48-Grain S.P., .250 Savage 100-Grain Core-Lokt, .257 Roberts 100-Grain Silver-Tip, .300 Savage 180-Grain, .30 Remington 170-Grain, .30-30 170-Grain Boattail, .35 Remington 200-Grain Core-Lokt, .348 Winchester 250-Grain Silver-Tip, .30-40 Krag 180-Grain S.P., .30-'06 180-Grain Silver-Tip, and .300 H.&H. Magnum 180-Grain Silver-Tip.



obtained some ammunition and hoped to have rifles built. The war naturally interfered.

The writer was fortunate in getting a rifle in cal. .276 Pederson. A new Target Model Win. M54 rifle in cal. 7mm. was used. Griffin & Howe cut off the barrel breech sufficiently to permit rechambering it closely to .276 Pederson.

Firing the rifle with Lot 23 F.A. 1929 ammunition, using a Fecker 8X scope, much expectancy was rudely and speedily disspelled. At 100 yards the groups ran 3 inches or slightly more. Every detail that could be, was checked. The chamber was close. The headspace tolerance close to zero—it took a push downward to close the bolt—the throat was close for the 125-grain boattail bullet. The bore was a smooth, even .284" throughout. The rifle and scope were capable of minute of angle groups if the ammunition was right.

A check of the Lot 23 cal. .276 ammunition showed about the same uniformity that good F.A. .30-06 service loading would. For example, a breakdown of many rounds gave the following data:

	Powder	*Bullet*
Low	32.0	125.3
Average of 10	32.2	126.8
High	32.5	128.0

The bullets run .284" diameter very uniformly.

A friend had a Springfield action rebarreled by Vernor Gipson. A new Remington barrel taken from a Remington rolling block 7mm. single-shot military rifle was used. A similar rifle fired with regular commercial 7mm. 175-grain soft-point ammunition had shot possibles at 100 yards on the small bore target, with the as-issued military sights, so that much hope was placed in the .276 Pederson on the Springfield action. Incidentally, the M54 action and the M1903 action both handled the .276 Pederson ammunition without any change being made in the magazine, bolt head, extractor, or ejector. Both rifles feed, fire, extract, and eject without any difficulty, cramping, or tendency to jam.

On the range, the .276 Springfield with iron sights gave the same sort of groups; none under 3 inches at 100 yards, and the owner of the rifle sold it, disappointed, and giving the whole busjness up as a bad job. The writer still felt that the .276 Pederson was capable of the kind of accuracy, a look at that cartridge, would lead you to expect.

Fired cases were decapped, the crimped primer pockets opened with a Schmitt tool, altered to .276 caliber, and made ready for reloading. The neck anneal on the Lot 23 cases seldom extends below the neck, and some unfired ammunition showed season cracks. Those bullets were pulled for future use and the powder saved.

Study of the F.A. bullet leads the writer to believe that too much of the weight is to the rear, which could increase yaw and, on the target, yaw means large groups. To eliminate that possibility, some Western Tool and Copper Works, 7mm. open-point, 123-grain, flat-base, bullets were loaded ahead of 32 grains of du Pont No. 25 powder—the load as found in the F.A. Lot 23, ammunition—with the Remington No. 8½ primer. The cartridge length was 69mm., which just enabled the bullet to touch the lead.

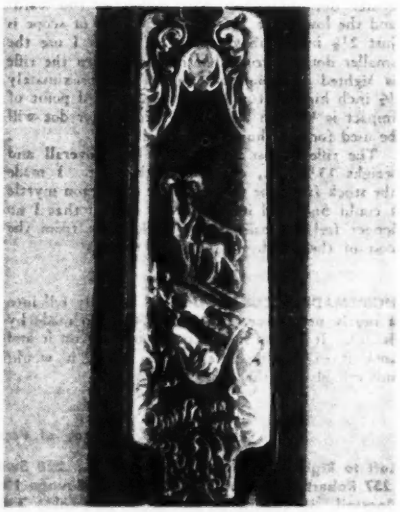
On two different ranges, on two different days some firing was done and Lot 23 F.A. gave groups of 3 minutes of angle for four riflemen, with the M54 and 8x glass. Finally, the handloads were tried. The first rifleman got 1¾-inch groups of 10 rounds. Another put four into 1¼ inches and pulled his fifth shot to enlarge it to 1⅞. The third got a group of under 1 inch for 9 of 10 shots, calling his fourth shot low and out of the group. It was and enlarged it to 1⅞ inches.

So far as can be discovered, no one has reported groups like the above. Those riflemen who could not make the .276 Pederson group, are urged to try bullets other than the F.A. make, in weights lighter than 130 grains, like the W.T. & C.W., or Barnes. The results will probably revive our interest in the .276 Pederson cartridge. —THOMAS C. FLORICH.

NOTE: My own G. & H. Winchester 54 put 8 shots of Florich's load in 2.72 inches and 5 shots in 3.74 inches at 200 yards; also 5 shots in 2.27 inches at 100 yards. The best with the F.A. 1929 Pederson load was 8 in 2.92 inches at 100 yards; or one-half as good, mean.

NICE DECORATING. H. B. Newton, gunsmith of Pine Bluff, Ark., sent in the close-up of the gun stock neatly decorated with a mountain lion, that was "engraved" by W. G. Newton (not connected with his shop) according to H. B. Newton, who says he is getting more work than he can handle.

The photograph of the engraved floor plate came from Staff Sgt. R. G. Leonard, who said his buddy, Alvin White, 90 Mechanic St., Attleboro, Mass., did the work, and plans to make it his post-war job as soon as he is released. According to Sgt. Leonard, "His relief work is the finest. His figures of game animals are a little better than most, as he hunts and watches game in its habitat, and is very clever at reproducing it in metal."



Above: Mountain Ram by W. G. Newton and (Below) Mountain Lion by Alvin White

COLT KINK. When my Detective Special jammed and I had to rotate the cylinder by hand while cocking the hammer, observation showed that the cylinder stop was not releasing. Upon dismounting it, I found the rocker arm was not broken, as I had feared, but merely loose. Turning tight the holding screw through its fulcrum fixed the trouble. Every owner who depends on this gun for self protection should make sure this screw in his gun bottoms perfectly and tightly and stays put, in order to avoid such jams at some crucial moment.—GEORGE W. SPENCE.

ON CHECKING BULLET METAL. In the matter of determining the hardness of lead-tin alloys for bullet casting, I have been using a simple and apparently satisfactory method that I would like to see submitted to the criticism of reloaders.

Using old bullets and plumbing fixtures as sources of metal, I bring the batch somewhat above melting temperature but probably not hot enough to melt antimony. Fluxing with beeswax, I skim the metal and cast into ingots. I assume that I have a lead-tin alloy, the tin content of which can be determined by specific gravity of the alloy compared with the specific gravities of lead and of tin. The method checked on tests of known alloys, such as solder, but I have had no pure sources of metal for other testing.

If the alloys were proportioned by *volume* there would be a change of .04 points in specific gravity for each change of 1% in tin content. But, since the materials are alloyed by *weight*, it was necessary to work out a table, as follows:

Specific Gravity	*Lead by wt.*	*Tin by wt.*
11.34	100%	0%
11.282	99	1
11.217	98	2
11.156	97	3
11.095	96	4
11.035	95	5
10.976	94	6
10.918	93	7
10.860	92	8
10.802	91	9
10.746	90	10
7.30	0	100

I predetermine the size of the batch I want and the alloy I want and, from those figures, the total amount of each metal wanted and the amounts supplied in the tested ingots. I then bring the bullet metal to the desired alloy by adding high or low tin-content material, tested in the same way. In each instance the finished metal has checked out as expected.

The only testing equipment needed is a sensitive scale that will permit weighing in distilled water as well as in air. I usually test about a 2-lb. ingot.—PAUL M. DOWNING.

THE .30 CARBINE LOAD TABOO. In the recent issue of THE RIFLEMAN, I note that some optimistic soul is offering in the classified advertisements a revolver which will handle either the .32-20 or the .30 Carbine cartridge. It is possible that this man may be a gunsmith who understands the difference in pressure characteristics of the two cartridges and has provided for the extra strain. At any rate other persons will find sooner or later that the carbine cartridge will work in their .32-20 firearms and will try a trial shot. The results may astonish them, with pressures 2½ times those of the .32-20.

Isn't the time ripe for THE RIFLEMAN and some of the sporting magazines to caution against this practice? You may have issued something of the sort in your Dope Bag but, if so, I have missed it. Carbine cartridges are not common as yet but probably will be at some future date. I suppose there will be agitation for their widespread sale, although I cannot see that they make any useful contribution to our already overstuffed cartridge list.—D.V.M.

Answer: Thank you for your letter of March 17 on a matter in which we agree fully and which I have stated in my department more than once. It will do no harm, however, to keep repeating it occasionally.

WANTS IMPACT DOPE. My .30-'06 Owen Springfield is equipped with a Hensoldt scope, front of scope even with rear of chamber, center line of scope to center line of bore 1⅞ inches.

This gun is now sighted at 200 yards using Remington 110-grain mushroom factory loads at 3,380 m.v. At what point beyond this range will the bullet again cross the line of sight? Or has it already done so?

With the same 200-yard setting, where would the point of impact be at 300 and 400 yards with relation to the point of aim?

Would you also give me the same information using the 150-grain S.P. Remington factory cartridge?

At what range could the 110-grain load be sighted so that at no point would the bullet be more than 3 inches above or below the line of sight? Thank you (in advance) for your trouble. —A.R.D.

Answer: I have your letter of July 8 and note you have a 200-yard zero impact with the 110-grain .30-'06 load and with your scope 1.88 inches above your bore.

The angles of elevation in minutes required for the 110-grain load are 1.5 at 100 yards, 3.2 at 200 yards, 5.1 at 300 yards, 7.5 at 400 yards and 10.2 at 500 yards. At 200 yards you have not only brought up your bullet 3.5 minutes of angle, but also to compensate for your bore drop which is an additional .9 minute at that range. You, therefore, have 4.1 minutes of elevation on your sight at present.

On this basis the requirements for 300 yards are 5.7 minutes total and you will be 1.6 minutes of angle low, or that much times 3, in inches. At 400 yards you would need 8 minutes and, therefore, you are 3.9 minutes short which can be multiplied by 4 for inches—the minute being equivalent to 1 inch per 100 yards. At 500 yards you would need 10.6 minutes, and you are 6.5 minutes short or low.

For the 150-grain bullet at 3,000 f.s. the minutes of angle required are: 2.0 at 100 yards, 4.2 at 200 yards, 6.7 at 300 yards, 9.5 at 400 yards, and 12.8 at 500 yards. By using the same system above you could figure your zero and impacts after you know where your gun is shooting with that load at any of the shorter ranges.

To carry out the example for the 110-grain bullet at 100 yards, you would need 3.3 minutes total elevation at that range for zero, and you have 4.1 total minutes on your sight at present. Your impact should, therefore, be .8 or nearly an inch high at 100 yards. That means your bullet is coming up through your line of sight at some shorter distance, probably in the vicinity of 50 yards.

TRADE DOPE

Medal Catalog. Gene Mitchell already has out his 1946 catalog for V. H. Blackinton Co., a 40-page book of "Distinctive Shooting Awards," in black and white and color.

* * *

Kenneth Wright announces that his new gunsmith shop and sporting goods store is ready for business at Bloomsburg, Pa. The store part is 20 x 20 feet and the shop, a little larger. Besides gunsmithing he will make and manufacture special tools, gadgets, reamers, and other items for other gunsmiths. His new place is four miles north of Bloomsburg on the main Susquehanna trail, Route 11, between Harrisburg and New York City.

Home Shop Stuff. Frank Mittermeier still operates his mail-order business in his spare time, but has added some new items, including the Burgess Vibro Tool with a special Tantalum Carbide point for marking or engraving hardened steel. The former prewar Magic Wand Welder has been replaced with a much-improved, better-working, and more expensive Transformer Model for the same home shop welding purpose.

* * *

Gunsmith Catalog. Roy E. Weatherby is delivering his attractive 20-page large-size catalog on gunsmithing services and supplies.

* * *

New Dot Service. T. K. Lee announces higher prices and the availability of Center Dot Alaskan scopes furnished new and directly from the Lyman factory on special order.

* * *

Refinishing Service. Cliff Perkins, of Lisbon, New Hampshire, announces his specialty of bluing, checkering, and refinishing guns, after serving several hundred customers without complaint so far. We'll know more about the quality after a trial order.

* * *

Cartridge Pouches. R. M. Perry, Coeur d'Alene, Idaho, makes containers for the belt to hold clips or loose ammunition, easily released by squeezing, in Commando, Hunter, and Plinker models.

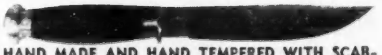
* * *

Gunsmiths Back. Kenneth N. Strine reopens his Ohio shop and services by offering a bullet sizer and lubricator with extra dies and punches in addition to regular gun work. Also E. M. Berntson has offered a shell resizer and wadcutter for shotguns in addition to gun repair work and custom reloading in his Minnesota shop.

* * *

The Argus Company is prepared to coat all lenses of pre-war Argus Spotting Telescopes for a standard charge of $11.50. The factory job will carry a guarantee of satisfactory workmanship and performance. The owner can take his telescope to any Argus Dealer, who will package and ship the instrument to the factory. Or, the owner can ship it direct. Either way, the cost is the same. From 2 to 3 weeks will probably be required to handle this work. Shipments should be made to ARGUS, INC., Ann Arbor, Michigan, by express or parcel post, charges paid. To the package attach a letter, with three-cent postage attached, indicating just what you want done. To individuals the telescope will be returned C.O.D. $11.50 plus collection charges. Or, you can send $11.50 with the order, and save yourself the C.O.D. collection charges.

WORLD'S BEST KNIFE



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2. All Orders Subject to These Conditions: WE reserve the right to edit all copy to conform with our standards and to reject or discontinue any advertisement which we consider undesirable.

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6. "For Sale" Ads Must State Price: A specific price must be stated on all FOR SALE ads—except that the phrase "write for catalog" may be used when listing real estate or merchandise in quantities.

7. Firearms for Sale or Trade Must Be Defined: The *condition* of every gun (including essential parts) advertised for sale or trade, *must* be specified according to *NRA standards*, as follows: PERFECT—meaning factory condition; EXCELLENT—meaning new condition, implying negligible amount of use; VERY GOOD—meaning practically new condition, implying little use, with no appreciable bore wear and only minor surface scratches or wear; GOOD—meaning moderate use with some finish worn off, only moderate bore wear, with no pits and nothing worse than a little roughness in the bore; FAIR—meaning no parts missing necessary to use of gun, reasonable wear inside and out, nothing worse than minor pits in steel or stock, gun sufficiently accurate for hunting. POOR—meaning marred appearance and pitted or badly worn bore.

8. Non-Specific Phrases Barred: Phrases such as "highest" or "top prices paid." as well as any other so-called "auction-type" phrases are not acceptable. The terms "fair price paid" or "state price wanted" may be used.

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12. Federal Explosives Act Defined: Under the Federal Explosives Act of 1941 all buyers, sellers, and possessors of gunpowder (not complete cartridges) must be licensed. Explosives licenses are usually obtainable from county court clerks. Purchasers must submit such licenses or a certified copy thereof to the seller at time of sale.

13. "Outlawed" Firearms Defined: The sale of certain firearms is outlawed by Federal law unless handled by a Federally licensed dealer. These include machine or submachine guns; sawed-off rifles and shotguns with barrels of 18 inches or less, and Mauser and Luger auto pistols *with holster stocks*.

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FOR SALE

20 SHOT MAGAZINE FOR 30-06 SPRINGFIELD $5.50. B. K. Wingate, 470 Parkway, Trenton, N. J. 12-45

GIANT CHINCHILLA RABBITS. VALUABLE fur. Delicious meat. Easily raised. Pleasant pastime. Tremendous demand. Small investment. Large profit. Willow Farm, R82, Sellersville, Penna. tf

CASWELL TARGET CARRIERS GIVE THE shooter every possible point because they hold the target steady and require no exertion to operate, fully equipped with speedy ball-bearing pulley wheels and target holders for every type of indoor paper rifle or pistol targets. Caswell Target Carriers, Anoka, Minnesota. tf

PATENT PROTECTION. INFORMATION AND invention record free. Randolph & Beavers, 370 Columbian Bldg., Washington, D. C. 12-45

GUNS, MODERN, ANTIQUE, ALL KINDS, AMmunition, loading tools and supplies, list 10¢. Geo. Brullesauer, 3957A Castleman, St. Louis, 10, Missouri. 1-46

ILLUSTRATED 145 PAGE CATALOG OF ANtique firearms and edged weapons 25¢. Robert Abels, 860 Lexington Ave., New York 21, New York. 1-46

THE REVOLVER TIMING RECORD—A 10 INCH RCA-Victor phonograph record, practice timed and rapid fire anywhere, by yourself, nothing to watch—just listen, for dry shooting, basement and outdoor ranges, one side 10 second timing, other side 20 second timing, plays on any phonograph, $1.50 postpaid. The Original Sight-Exchange, Box J. Paoli, Penna. 2-46

REWARD— CASH OR GUNS FOR YOUR HELP in locating purchasable Antique Firearms Collections. Prompt, honorable dealing. James Serven, Santa Ana, Calif. tf

MUZZLE GUN SUPPLIES: #11 PERCUSSION caps, 1000 for $2.85 FOB. Black powder 6¼ pounds for $4.00, FOB Bureau of Mines License required. Several tested flint and percussion rifles ready to sell, $37.50 to $125.00. Powder measure-charger (for black powder only) zero to 100 grains, $3.50. Colt and Remington pistol nipples, 5 for $1.00. Rifle and shotgun nipples (¼"-28 thread) 5 for $1.00. Small caliber hickory ramrods, 75¢, over .45 caliber $1.00. For Beginners Only—a booklet designed to help beginners in muzzle gun game, other gun publications. E. M. Farris, N&W YMCA, Portsmouth, Ohio. tf

INDUSTRIAL PRODUCTS COMPANY, IPCO Reloading lubricants: IPCO colloidal graphite ribbon wads, $1.00 per box, IPCO bullet lubricant $1.00 per box. Special discount to dealers. W. W. Perkins, Prop., Box 14, Wakefield, Mass. tf

REVOLVERS, MINERALS, STAMPS, COINS, glass, Indian relics, catalog 5¢. Cowboy Lemly, Las Cruces, New Mexico. tf

AMMUNITION .45-70-500 SMOKELESS, $1.64 per box, $8.00 per hundred, packing charge 10¢ per box, no c.o.d. shipments. L. L. Bolin, Dept. R, 9 Grand St., South Amboy, N. J. 12-45

20 PAGE CATALOG, LISTING ANTIQUE FIREarms, edged weapons, cartridges, tools, parts, books and collectors items for 15¢. H. A. Brand, 1008 Ingalls Bldg., Cincinnati 2, Ohio. 7-46

INDIAN RELICS, CONFEDERATE BILLS, coins, minerals, gems, fossils, crystals. Illustrated catalog 5¢, 100 ancient arrowheads $3.00. H. Daniel, Hot Springs, Arkansas. tf

SPORTSMAN DESIGN LEATHER CARTRIDGE cases, 100% field and use performance, for all calibers, clips, catalog. R. M. Perry, Coeur d' Alene, Idaho. 11-45

GERMAN SEMI-AUTOMATIC RIFLES, MODEL 1943, gas operated, 24" barrel, 10 shot, finish worn, barrel and mechanically excellent, $75.00. Mauser actions, finish worn, mechanically excellent $20.00. Percy R. Ackert, West Park, N. Y. 11-45

FINE RARE COLT DRAGOONS; OTHER CAP and ball revolvers, also long antique guns, list 10¢ in stamps. E. C. Ward, Suite 406 Wilcox Bldg., Los Angeles 12, Calif. 1-46

HUNTING LODGE, DATIL MOUNTAINS, N. M., for particulars, write R. W. Nourse, Datil, N. M. 11-45

30-06 METAL PATCHED F.A. LATE ISSUE rifle cartridges $10.00 per 100, percussion caps, #11, $2.50 per 1000, recoil pad, rubber slipon type, U. S. Govt. for rifle, shotgun $1.00, rifle slings, U. S. Army regulation 1¼" leather, fine condition 75¢. 10,000 rifle slings, U. S. Army, 1¼" webbing, fine condition, 49¢. Forward money with order. No COD shipments. Public Sports Shops, Dept. R-75, 13 So. 16th St., Phila., Penna. 11-45

RELOADING SUPPLIES RESIZING, DIES, WADcutters in all calibers and gauges made to order $6.00. Guaranteed, shotgun slugs rifled and round ball 12-16-20 gauge 12¢ each, felt wads all gauges $4.00 per 1000. Guns ammunition loading tools, list 10¢. Geo. Brullesauer, 3957A Castleman, St. Louis 10, Missouri. 11-45

SHOTGUN WADS FOR SALE 10, 12, 16, 20 gauges, $5.00 per M., packed in 1000 lots, consisting of 500 ½", 250 ½"C, 250 thin C, $4.00 in 5000 lots, send remittance with order, prompt delivery. E. G. Snyder, Rt. #2, Reading, Penna. tf

SCOPES, MOUNTS, GUNS, RELOADING TOOLS, powder, bullets, latest Ideal Handbooks, postpaid 50¢, catalog 10¢. Louis Rinquette, Grants Pass, Oregon. 1-46

CARTRIDGES: 30-06 HOLLOW POINT, 173 grain M1 bullets, excellent game killers, $5.00 bandolier of 60. Chas. N. Cox, 919 Prince St., Alexandria, Va. 11-45

RIFLE CLUBS' SPECIAL PRICES ON ALL OFficial N.R.A. tournament targets. T. G. Crain, 919 Millville Road, Altoona, Penna. 12-45

SPECIAL SALE GENT'S ALL LEATHER WRISTwatch straps, tan, black, mahogany and light pigskin, one dozen to display card, retail tag $2.00. Dealer's price $6.50 dozen, orders shipped within 24 hours on receipt of check, no COD's. Leather Specialties, 1840 Gladstone St., Philadelphia 45, Pa. 12-45

WINCHESTER 70, 30-06 BULLGUN IN BULL pup stock, extra standard stocks, special bolt handle works from shoulder, Stith mount with Alaskan prewar scope, scope optically fine, outside scratched, rifle outside v. good, inside perfect, price complete $200.00, without scope $150.00. Bernt Johnson, 1211 Avant Ave., San Antonio, Texas.

CROW CALLING—25,000 WORD INTRODUCtion to the world's fastest shooting sport, splendid Christmas gift for shooters, $1.50 each, four for $5.00. Popowski, 3408 Jones, Omaha, Nebraska. 12-45

FIREARMS IN AMERICAN HISTORY—THE REvolver, by Charles Winthrop Sawyer. De luxe, red and gold cloth bound edition limited to 1000 numbered copies, of which less than 400 are now available, 219 pages, 6 plates and frontispiece, retail price $5.00 postpaid, discounts to bona-fide dealers: 1-4, 33⅓%; 5-9, 36%; 10 plus, 40%; 25 plus, 45%; terms: cash in advance. No C.O.D. orders, we pay postage. Charles Edward Chapel. Author and Publisher of Gun Books, 616 Flower St., Inglewood, California.

1" EIGHT POWER UNERTL SCOPE, EXCELlent, $42.50. Henry Paulus, 53 Cliff St., Burlington, Vermont.

P.38 AUTOMATIC PISTOL, GERMAN OFFICER'S model, excellent condition, $95.00. Public Sport Shops, Dept. R-75, 13 So. 16th St., Philadelphia, Penna.

NEW FALL-WINTER GUARANTEED BARGAIN catalog and swap list of available new and used guns, featuring thousands of still hard-to-find sportsmen's items, send 25¢, refundable with first order, Klein's Sporting Goods, 502TE South Halsted, Chicago 7.

MILLER BEDFORD, NEW LONDON, OHIO, presents Hosstheef Gaysette #6, which lists old guns, some the world's rarest, to the energetic guy or gal who sends a LONG self addressed stamped envelope. We want pistol collections and world's finest and rarest guns.

30-40 KRAG 22" BARREL, PACIFIC MIC. PEEP, good, $35.00, Stevens 32-20 44½ action, 28" barrel, double set triggers, Stevens 6 power scope, good $45.00. Stanley Smith, 215 Saratoga St., Cohoes, N. Y.

WINCHESTER STANDARD MODEL 70, 30-06 with Lyman Alaskan All-Weather scope on Griffin and Howe low mount, also Lyman 48 WJS, Griffin and Howe special metal work on bolt handle, bolt, and front sight, excellent. 160 rounds of 180 grain Corelokt and 60 rounds of 110 grain mushroom ammunition, $175.00. No items sold separately. Dr. R. J. Ackart, Rockmere, Wilmington, Delaware.

.220 SWIFT ON WINCHESTER LEE ACTION, custom stock, Savage barrel, good condition, $45.00. Victor Anderson, Box 48, Belle, W. Va.

GUNS, TOOLS, AMMUNITION, PRIMERS, BULlets, etc., list for stamp. Weldon, 11718 Mayfield, Los Angeles 24, California.

MODEL 54, 30-06 WITH IVORY INLAID CHECKered custom stock with cheekpiece, Lyman 48 rear, sling, ammo, very good, $85.00. Henry Choquette, 1324 Laramie, Manhattan, Kansas.

COLT .357 MAGNUM SINGLE ACTION ARMY 43/4", very good outside, excellent inside, carved cordovan open holster, sheepskin holster, 38" cartridge belt, $55.00. F. M. Kincaid, Mountain Lakes, N. J.

NEW SINGLE SPECIMEN LIST #9 FOR THE collector, 10¢ coin or stamps. Carl Metzger, 2305 Canton St., Dallas 1, Texas. 12-45

WOODSMAN, 6½", ROPER GRIPS, 500 LONG rifle, very good to excellent, $60.00. Capt. Charles Doland, Dental Corps, Old Cantonment Hospital, Mitchel Field, New York.

SAVAGE 23D HORNET, 355, WEAVER SCOPE, like new in and out, minor scratches on stock, satisfaction guaranteed, $60.00. William Paul, 126 Blair St., Plymouth, Penna.

RIDING AND TRAINING, A COMPLETE NEW horse book just off the press, for Free literature write Earl Farshler, Old Stage Rd., Salinas, Calif.

REMINGTON AUTOMATIC 12-30 F OR CYL. rib, excellent, $80.00, ditto 12-28 M, v.g. $70.00, ditto 12-26 Poly Choke, good, $65.00, L. C. Smith 12-30 FM v.g. $55.00, Ithaca 16-28 I.M.F. v.g. $50.00. Albert Kaiser, McQuady, Kentucky.

MODEL 54 WINCHESTER STANDARD 250-3000, also an extra 30-06 target grade barrel for same, excellent $150.00, Unertl 2" 16X scope with new Unertl mounts and Lee dots excellent, $185.00, Fecker 1½" 8x scope, excellent with mount $60.00, trade even small rifle primers for .22 match ammunition, no c.o.d. Ken Owens, Grove Avenue, Lewistown, Penna.

MUZZLE CAPS NOW MADE OF OIL RESISTANT neoprene. Use muzzle caps and shoot safely always. Endorsed by shooters everywhere. 35¢ dozen postpaid, for rifle or shotgun, state which. Woodford Mfg. Co., Lyndhurst, Ohio.

WINCHESTER M12 12 GAUGE TRAP 30" FULL, ventilated rib, excellent condition, with exception of minor handling marks, $130.00. Major M. J. Lewis. % Lewis Garage, Lisbon, Ohio.

WINCHESTER MODEL 42—410; FULL EXCELlent, $60.00, Winchester model 12-12, full, oil finish, Jostam pad, inside excellent, outside very good, cowhide case, Powers cleaning rod, $75.00, shells extra. Frank Gander, Court House, Sparta, Wisconsin.

WALTHER P. 38, 1943 ISSUE 9MM. SHELLS, Luger 1942 issue, 4" barrel 9mm. leather case, both perfect $75.00 each. Roy Johnson, 109 E. 8th. Mt. Carmel, Illinois.

OUR LIST OF MODERN ARMS WILL BE SENT on receipt of three cent stamp. Kimball Arms Company, Woburn, Mass. tf

30-06 METAL PATCH F.A. LATE ISSUE RIFLE cartridge $10.00 per 100. Percussion caps, #11, $2.50 per 1000, recoil pad, rubber slip-on type, U.S. Govt for rifle, shotgun $1.00, Rifle slings, U.S. Army Regulation 1¼" leather, fine condition, 75¢, 10,000 rifle slings, U.S. Army, 1¼" webbing, fine condition 49¢, forward money with order. no COD shipments. Public Sport Shops, Dept. R-75, 13 South 16th St., Philadelphia, Penna.

THE BEST *Marlin* RIFLES SINCE 1870

MARLIN RIFLES are being made again! Quantities are limited but several thousand sportsmen will soon own brand new Marlins—the best in 75 years. Honest guns—safe, accurate, long-lived. Built to standards that made the name famous, with war-improved skills. If you're lucky enough to get a new Marlin, treat it well. It will repay your care with many long years of service.

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ESTABLISHED 1870

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IT'S NATIONAL FOR VALUES!

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Carl Zeiss Telex, individual focus, 6x24	55.00
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Hensoldt Dyalyt, 6x36, central focus	145.00
Lumlite 8x27, central focus	48.00
Busch 9x24, central focus	55.00
Busch 8x40 field glass	25.00
Megaphos 8x24, central focus	35.00
Goerz 8x24, individual focus	48.00
Hensoldt 8x24 Artillery, central focus	48.00
Dumor 20x52 Prism Monocular	49.50
Hensoldt 3½x18 Wacht, central focus	48.00
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Foth 16x43 binocular, central focus	110.00
Bausch & Lomb, army type, individual focus	72.00
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Busch 12x36, central focus, Telex	110.00
Leitz 12x42 Monocular	72.00
Hensoldt 8x24 Central Focus Artillery, as new	59.50
Goerz 6x20 I. F.	79.50
Steinheil 9x24, individual focus	35.00
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7x50 coated Bausch & Lomb binoculars, with case, brand new	$199.00
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- **COATED LENSES**
- **20X EYEPIECE**

$74.50

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Coating of the lens greatly reduces internal reflection of the scope, increases its effective use approximately 45 minutes in the early morning and 45 minutes in the late evening.

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HUNTING KNIFE

Finest of Knife Steel. Hollow ground. Leather Sheath. $5.00, Postpaid.

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Gunsmiths

Missoula **Montana**

LYMAN ALASKAN ALL-WEATHER SCOPE, new $50.00, Unertl 1", 8X, ¼ min. click mounts, coated lens, new $46.50, Springfield sporter 20" barrel B&M 3X hunting scope very good, $125.00, Winchester model 94, 32 Special Lyman peep rear, ivory bead front, 3 box cartridges, $60.00, S&W K. 22 outdoorsman's Buckanan action work, hump back hammer, short fall, white X front sight, adjustable rear, Sanderson grips & factory grip excellent condition, $80.00, Colts new Police 6" barrel, 32 caliber, fair $25.00, H&R Reg-Lar 22 LR model 365 Lyman 55-H rear sight, new $28.00, Flintlock pistol U.S. model R. Johnson 1837, good working order, $25.00. Gaylor Hess, 1100 Elm St., Bridgeport, Ohio.

COLT CAP AND BALL REVOLVERS, WHITNEY C&B, Tranter double action cap and ball revolver, Manhattans, Savage, Freeman and many more, three cent stamp brings catalog. P. J. Glickman, 4122 Sunnyslope, Sherman Oaks, California.

SEDGLEY SPRINGFIELD SPORTER 30-06, Lyman sights and sling, fired 25 times, bolt handle not turned down, purchased 1 year ago for $162.00 new, will sell for $135.00. Dren Duffy, 426 West Bldg., Houston, Texas.

CUSTOM SPRINGFIELD BEAUTIFULLY FIGured walnut Mannlicher type stock, cheekrest, 20" barrel, Lyman Alaskan All-Weather in G&H double lever mounts, 60 fresh cartridges, inside perfect, outside excellent $250.00, new Fecker 8X 1⅛" scope $60.00. Edward Knapp, 151 Farmington, Hartford, Conn.

ANTIQUE AND OBSOLETE FIREARMS FOR collectors bought and sold, always a fine stock on hand. The House of Guns, 34 Alpine Place, Arlington, N. J. 11-45

.32 COLT AUTO, GLOVE LEATHER CASE, extra magazine, 2 boxes cartridges, $38.50, S&W .38 nickeled model 1871 $30.00, .32 S&W Hd ejector 4¼" barrel blued $40.00, all guns excellent, Zeiss binoculars Silvamar 6X good condition, $85.00 Glenn Beede, 4245 South 37th St., St. Louis, Missouri.

WALTHER P38 9MM. AUTO PISTOL, EXCELlent, extra barrel, magazine, stocks, $85.00, want set triggers for Mauser. Capt. Ellis Lea, 214 South Street, South Charleston, W. Va.

DUCK AND GOOSE GUN, FOX MAGNUM 3" boring 12 double, automatic ejectors, inside excellent, outside very good, $90.00. Dr. Jack Cady, Arlington, Nebr.

STEVENS 47 SINGLE SHOT .22 HEAVY BARREL target rifle large fore-end, custom pistol grip stock, sling swivels, glove front, micrometer rear tang sight, scope blocks, excellent to perfect, very accurate $55.00. scopes, binoculars, perfect 5A scope, Lee #2 dot, click mounts with Mannlicher Niedner dove tail bases, lens covers, leather case, $38.00, perfect Unertl tube sight click mounts $23.00, Bausch & Lomb 10x45 binoculars I.F. perfect optically, excellent out, movable amber shutters, sunshades, fine case, straps. $115.00. Floyd Impson, Auburn, Iowa.

FOX CE, D.B., 16X26", I.C. MODIFIED, 2½" drop, automatic ejectors, selective single trigger, beavertail, perfect in, excellent out, sheepskin case. $180.00. John Watson, Slippery Rock, Penna.

NEW 30-30 FULL LENGTH SIZING DIE, $3.00 Paul Mahoney, 5609 Pleasant Ave., Minneapolis, Minnesota.

2R LOVELL, PERFECT IN AND OUT, BY BISley Winchester low side, heavy Savage barrel 28", beautiful high comb custom stock, Beavertail forearm, sling, Weaver 29S Litschert 6X attachment 1¼" objective, weight 10-lbs., 100 Remington empty cases unsized $115.00, .22 Colt Woodsman 6½ very good in, good out, blue on barrel holster worn, right grip cracked, tooled leather holster, 500 cartridges, $45.00, Buhmiller chrome moly 2R barrel blank, new, 16" twist 1⅛x27" $15.00. Stilson Ford, West Winfield, N. Y.

WINCHESTER 94 CARBINE, BRAND NEW never fired, .32 Special, new leather trimmed cover, 120 factory loads, perfect, $69.00, Winchester Enfield Sporter, Redfield mount, Weaver 330 post, super grade burl stock cheekpiece Monte Carlo, Pachmayr pad, q.d. swivels, professionally built, perfect. $145.00. E. E. Smallwood, 4303 Kaywood Drive, Mt. Rainier, Maryland.

HEAVY 10 GAUGE JOSEPH MANTON GOOSE gun, fair, $25.00, Marlin 25 rimfire pump, very good, $25.00, Merrimac Ballard, good, $15.00, double gun, 30-30 and 12 gauge, very good, $25.00, .300 Savage on Springfield action, very good, $65.00, or trade for 250-3000, following in good shooting condition, Kennedy 45-60, $15.00, Pin-fire pistol, $5.00. 41 Swiss with Bayonet $10.00. 43 Egyptian, $10.00 38 Rimfire Remington, $7.50. Victor Burke, Pullman, Wash.

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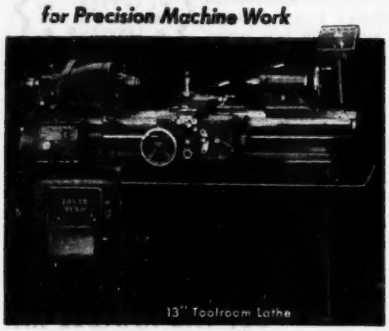

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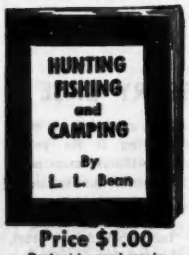

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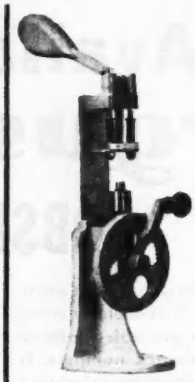

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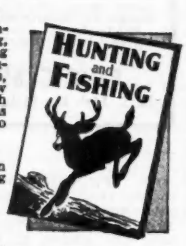

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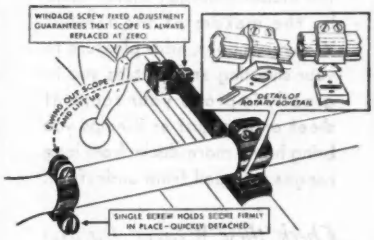
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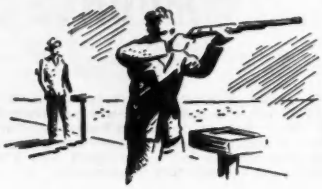

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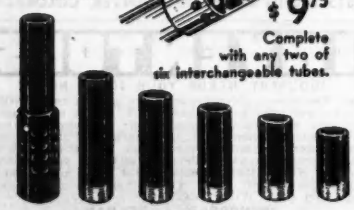

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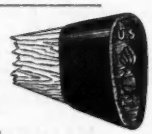

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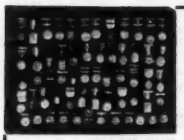

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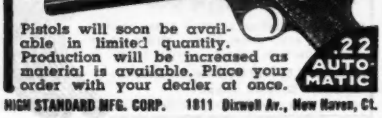

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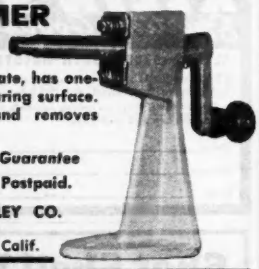

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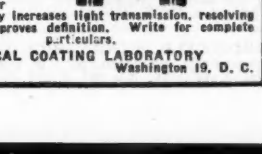

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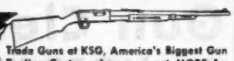

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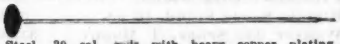

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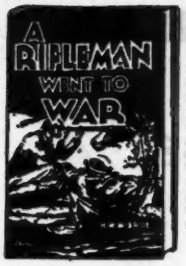

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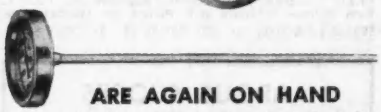

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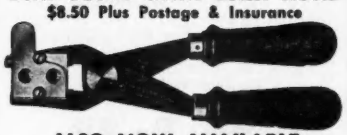

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